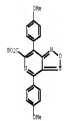
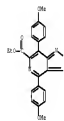


PROJECT NO.	KIND	DATE	APPLICATION NO.	DATE
NO 2009116710	AL	20091215	NO 2007-JP64894	21070730

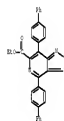
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COST: NO 2007-284494 1001030 OTHER SOURCE(S): M0001 15016164 </p> <p> AB To be used to provide a diagnostic agent possessing a high antibody-labeling ratio, in which a fluorescent dye possessing a high fluorescence intensity is used. The diagnostic agent possesses a core development part consisting of an organic electroluminescence (EL) dye as a fluorescent dye, one or a binding part capable of binding to an antibody. In comparison to the existing agents, this diagnostic agent enables to improve an antibody-labeling ratio, and detect an antigen at an increased sensitivity owing to its high fluorescence intensity even at a solid state. </p> <p> CC (1) class 3, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191, 193, 195, 197, 199, 201, 203, 205, 207, 209, 211, 213, 215, 217, 219, 221, 223, 225, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245, 247, 249, 251, 253, 255, 257, 259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 311, 313, 315, 317, 319, 321, 323, 325, 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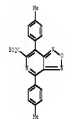
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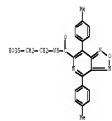
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FH 91066-S3-5 CAPLUS
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 4,7-bis[4-methylphenyl]- (CA INDEX 1002)

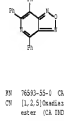


IN 910664-55-7 CAPLOS
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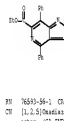


REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMS

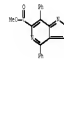
L6 ANSWER ? OF 31 CAPUS COPYRIGHT 2011 ACS on STM
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 DOCUMENT NUMBER: 149-117159
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 INVENTOR(S): Pios, Gregory
 PRESENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: Fr. Demande, 56pp.
 CODES: FRIEL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. SEM. CODES: 1
 PATENT INFORMATION:

[illegible]

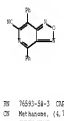
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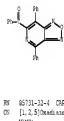
CU 1,2,5-Oxadiazolo(3,4-c)pyridine-6-carboxylic acid, 4,7-diphenyl-, methyl ester (CA INDEX NAME)



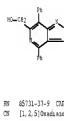
CH [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carbonitrile, 4,7-diphenyl- (CA INDEX NAME)



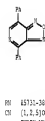
CH Methanone, (4,7-diphenyl[1,2,5]oxadiazole[3,4-c]pyridin-6-yl)phenyl- (CA
rout. synth.



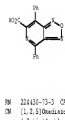
RX 05731-22-4 CIPGOS
 CH [1, 2, 5]Oxadiazole[3, 4-c]pyridine-6-methanol, 4, 1-diphenyl- (CA INDEX
 NAME)



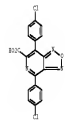
RE 65731-37-9 CHEMIS
CN [1,2,5]Oxadiazole[3,4-c]pyridine, 4,1-dibenzylo- (CA INDEX NAME)



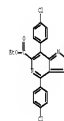
PH 15730-30-0 CAPLOS
 CN [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid, 4,4'-di(phenyl- (C
 OTHER NAME:



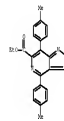
PN 22430-73-3 CAPLUS
CN (1,2,5)Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
6,7-bis(4-chlorophenyl)- (CA FITEK NME)



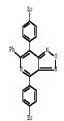
PN 225165-70-0 CAPLUS
IN (1,2,5)Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)

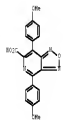


FN 225795-71-1 CASUS
CN [1,2,5]Oxadiazolo[3,4-c]pyridine-4-carboxylic acid,
4-[2-bis(4-methylphenyl)-1-ethoxy] ester (CF DICKI 1982)

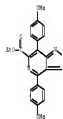


EN S19182-44-6 CIPUS
 CN [1, 2, 5]Oxadiazolo[3, 4-c]pyridine, 4, 7-bis(4-bromophenyl)-6-phenyl- (C
 INCE K301E)

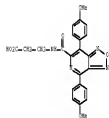




RX 857048-01-1 CASRN
 CN [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(4-methoxyphenyl)-, ethyl ester (CA INDEX NAME)

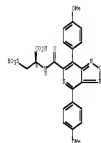


OS β -Alanine, N-[[[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]- (CA DICT NAME)



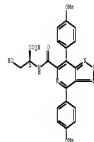
IN 1-alkanone, N-[(4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]-3-sulfo- (CA EINEK NAME)

Absolute stereochemistry.



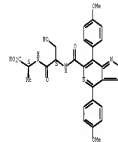
CH L-Serine, N-[[[4,7-bis(4-methoxyphenyl)(1,2,5)oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]- (CA INDEX NAME)

Absolute stereochemistry.



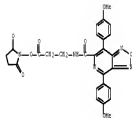
IN 921935-05-9 CASREG
CN 2-azanane, N-([4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazole[3,4-c]pyridin-6-yl]carbonyl)-5-arylo- (CA IUTEX NAME)

Absolute stereochemistry.



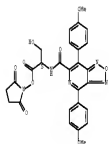
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
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16 JANUARY 1991 CAPSUS COPYRIGHT BILL ACE ON STN
 ACCESSION NUMBER: 2001/118994 CAPSUS Unlabelled
 DOCUMENT NUMBER: 14617191
 TITLE: Fluorescent dye-based diagnostic agent for labeling
 antibody, and diagnostic method using it
 INVENTOR(S): Isebe, Shinzaburo
 PATENT ASSIGNEE(S): Japan
 SOURCE: Jpn. Kokai Tokkyo Koho. #90-
 CODES: J0004F
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

[illegible]

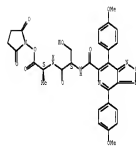
RE 921935-84-8 CASREG
 CH L-Serine, N-[[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazole[3,4-c]pyridin-6-yl]oxycarbonyl]-, 2,5-dioxo-2-pyrrolidinesyl ester (CA INDEX NAME)

Absolute stereochemistry

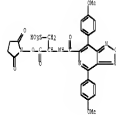


RX 921935-06-0 CAS/US
 CN L-Alanine, W-[4,7-bis(4-methoxyphenyl)-[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbamoyl-L-seryl-, 2,5-dioxo-1-pyrrolidinyl ester (CA DTXK X08E)

Absolute stereochemistry



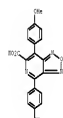
FH 55936-50-0 CAPSULE
 CH Alanine, N-[[[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazole(3,4-c)pyridine-6-
 nyl]carbonyl]-3-methoxy-1-(2,5-dioxo-1-oxazolidinyl) ester (CA INDEX NAME)



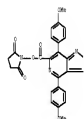
II	055-90-07-85	056-70-04-37	057-95-02-15
	058-70-07-60	059-87-03-37	060-05-04-39
	061-70-06-70		

(Reagent or reagent)

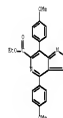
IN 855781-83-8 CIPACOS
CN [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
4,7-bis[4-methoxyphenyl]- (CA INDEX NAME)



CH [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
4,7-bis(4-methoxybenzyl)-, 2,5-dioxo-1-oxazolidinyl ester (CA INDEX NAME)

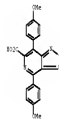
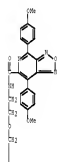


EN 057049-09-1 CAS#33
 CN [1,2,5]Oxadiazolo[3,4-c]pyridine-4-carboxylic acid,
 4,7-bis(4-methoxyphenyl)-, ethyl ester (C2 INDEX NAME)



- ### Isolate stereochemistry





EN **MS**: 70-60-29
ES: RSC (Reactant); SPN (Synthetic preparation); PNP (Preparation); RSC (Reactant or reagent)
 (development of fluorescent dGTP-intervasting reagents for
 application to gene detection)
FR RST(70-60-29) CAPUCS
CH [1,2,5]Oxadiazole[4,4'-c]pyrimidine-6-carboxylic acid,
 4-methyl-6-methoxymethyl-, 2,5-dimethyl-1-corroldinal ester (CA INDEX NAME)



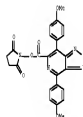
ON 2
ON 76-15-1
ON C2 8 P3 C3



IT 665701-4) 2
RE: RCT (Reactant); RACT (Reactant or reagent)
(development of fluorescent dGTPA-intercalating reagents for
application to gene detection)

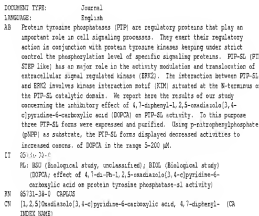
RX 665701-4) 8 CHLUGS

CN [1,2,5]Oxadiazole(4,3-d)-pyridine-6-carboxylic acid,
<http://www.eur-chem.org>



06.CITING PER COUNT: 2 TITLE: 26 CARPUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

66 JANUARY 17 31 CARPUS COPYRIGHT 2011 ACS or STM
ACCESSION NUMBER: 2006-23142 CARPUS [Full-text](#)
DOCUMENT NUMBER: 1461893
TITLE: The effect of 4,4'-diphenyl-1,2,3,5-tetracarboxylic[3,4-
b-cyclohexa-1,3-diene] acid on protein tyrosine
phosphatase-6 activity
AUTHOR(S): BALANA, MARIELA CARMELA; COLETON, DAN; POPESCU, ANGELA
CORPORATE SOURCE: Department of Organic Chemistry, "Politehnica"
UNIVERSITY, Bucharest, (40004, RO)
SOURCE: Revue Roumaine de Chimie (2006), Volume 51(5),
5019-51, 451-464
CODING: PUBMED: 1680; 1815-3903
PUBLISHER: Editura Academiei Romane



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE PE FORMAT

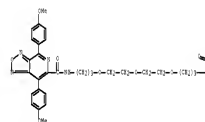
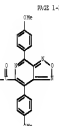
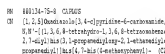
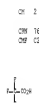
14 ABSTRACT 14 OF 31 CAPSULE ORIGINATOR: 2011 ACS on ESW
ACCESSION NUMBER: 2016-08-01 CAPSULE Publisher:
DOCUMENT NUMBER: 14-355306
TITLE: Development of double stranded DNA intercalating
organic electrochromaescence probe for gene detection
assay
INVENTOR(S): Isobe, Shunichiro
PRIORITY APPLICATION(S): Japan
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PEXK62
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

[illegible]

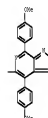
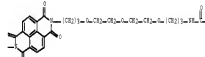
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17  NAME:
18  1701-01-14  199712-13-20  4227-34-96
19  60013-70-75
20  HG: HGK (Synthetical reagent); SPW (Synthetic preparation); ASST
21  (Synthetical assay); PWP (Preparation); URS (Uses)
22  (Sequestration of double stranded DNA intercalating organic
23  electrochromophore prior for gene detection assay)
24  MW 60013-71-1  CHEMID
25  [1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100]
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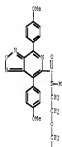


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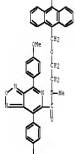


KE 000134-76-9 CIPROHE
CH [1,2,5]Oxadiazole[3,4-c]pyridine-6-carboxamide,
 N,N'-[9,10-anthracenediylbis(methyleneoxy-2,1-ethenediyl)]bis[4,7-bis(4-
 methoxyphenyl)-N-methyl-5-FCI] (CA INDEX NAME)

PAGE 1-8



59.0E 2.7



```

PM  880134-76-1  CASPOS
CM  [1,2,5]Oxadiazole[3,4-c]pyridine-6-carboxamide,
    6,7-bis(4-methoxyphenyl)-8-methyl-N-[2,2-(11-[[2-
    (methylamino)ethoxy]ethyl]-9-sarthaconyl)ethoxy]ethyl]-
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CM  1

CWS  880134-77-0
CWF  042 841 05 06

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TABLE 1. (continued)

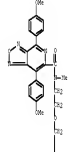


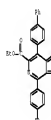
FIG. 2.3



CH 2
CHW 16-05-1
CHZ C2 H P3 Q2

PRIORITY AREA INFO : ID 5003-464116

AB SOURCE(S): CASREPT 145:335412
 AB The invention relates to an organic nonlinear optical material, characterized by a large two-photon absorption cross section, and a large Stokes shift, and represented by $(\text{Ar}^1)_2\text{C}(\text{Ar}^2)_2$ [Ar¹ = divalent heterocyclic group; Ar² and Ar³ = heterocyclics and alicyclic hydrocarbons; and m and n = 1-4 integers].
 IT (520) 9/00: C07D 333/00
 IC: P02 (Preparation, unclassified); S00 (Synthetic preparation); P02P (Preparation)
 (organic nonlinear optical material)
 IN 065991-10-1 CHUSIS
 CN [1,2,5]Oxadiazole[4,6-c]pyridine-6-carboxylic acid, 4-methyl-2-(1,1-bis(4-methyl-6-oxo-1,3-dioxol-2-yl)-acetyl)-acryl (CA INDEX NAME)

[illegible]

ASSIGNMENT KEY FOR IS WATER AVAILABLE IN OUR CLOUDS? FORTNITE

A) A method for collecting a sample is provided, in which a micropolymer is used with an organic dye (electroluminescent dye), and the fluorescence of the micropolymer sample labeled with the organic dye is measured. By using organic dye as a labeling dye, a micropolymer can be detected with higher sensitivity at lower cost.

B) MS (Analytical reagent use); SWP (Synthetic preparation); HMT (Analytical study); WPP (Preparation); HHS (Use)


C) A detection model using electroluminescent labeling dye

D) HST-60-80; CW-700

E) 1-(2-hydroxyethyl)-3-(4-chlorophenyl)-4-carboxylic acid
4,5-bis(4-methoxyphenyl)-2-nitro-6-methyl-succinylidene acid (CA INDEX 9000)

14 NUMBER 21 OF 31 CASPROS (COPYRIGHT 2011 ACS on WWW
ACCESSION NUMBER: 1421-8991(3) CASPROS Full-text
DOCUMENT NUMBER: 142-81575
TITLE: Method for detecting nanomaterials using labeling and
labeling kit
INVENTOR(S): Iseue, Shinichiro
PATENT ASSIGNEE(S): Matsui, Shuntaro; Japan; Tateyama, Shigori
SOURCE: PCT Int. Appl., 67 pp.
COATES: PRIORITY
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

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IT 255 94, 29-20
RE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent);
(development of double stranded DNA intercalating agent
electrochromance probe for gene detection assay)
EN 855 94, 44-4 CBRG3
CU [1, 2, 5-(benzimidazole)(3, 4-c[pyridine-4-oxymethyl acid,
4, 7-bis(4-methoxyphenyl)- 2, 5-dioxo-1-pyrroliodinyl ester (CA INDEX 10000

06.CITING REF COUNT: 3 THERE ARE 3 CAPLAS BOOKS THAT CITE THIS BOOK
(3 CITINGS)
REFERENCE COUNT: 2) THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
BOOK. 100 CITINGS AVAILABLE TO THE READER

16 JANUARY 1979 01 CASUS COPYRIGHT 2011 ACS on STM
ACCESSION NUMBER: 2015.100601 CASUS Pull-out
DOCUMENT NUMBER: 14.135872
TITLE: Optoelectric nonlinear optical material
INVENTOR(S): Kato, Shuntaro; Tanihara, Tetsuo; Kishi, Tetsuo; Itozumi, Kato, Shinichiro; Sotomura, Kideki; Shupawa, Hidenori; Honda, Shinya
PARENT ACCESSION(S): Mitohashi, Chemical Co., Japan
Jpn. Kokai Tokkyo Koho, 58 pp.
COBRI: JCO00P
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACQ. NUM. CONT: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005261340	A	20050922	JP 2004-239729	20040922
JP 4501588	B2	20030714		

[illegible]

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17 25576-43-9P  67704-03-1Z
18  RE: PCT (Product); SPR (Synthetic preparation); PRSP (Preparation); RA
19    (Reactant or reagent)
20    method for detecting signal, using electro-luminescent labeling dye)
21  25576-43-9  C27H25O5
22  (1,2,5)Oxadiazole[3,4-c]pyridine-6-carboxylic acid,
23  4,7-bis(4-methoxyphenyl)- (CA 790571 N001)

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06.CITING REF COUNT: 4 THERE ARE 4 CAPLAS BOOKS THAT CITE THIS BOOK
(7 CITINGS)

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS
BOOK. ALL CITINGS AVAILABLE FOR THIS BOOK

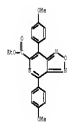
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16  AUGUST 21 OF 31  CARLOS COPYRIGHT 2011 ACS ON S/W
ACCESSION NUMBER:  2065589133  CARLOS  Pati-test
DOCUMENT NUMBER:   1036640
TITLE:             Single-layer organic el device
INVENTOR(S):       Isobe, Shunichiro
PATENT ASSIGNOR(S): Matsuda, Shunichi, Japan; Toketsuki, Shigeaki
SOURCE:            PCT Int. Appl., 26 pp
                     CODE:  P1X000
DOCUMENT TYPE:      Patent
LANGUAGE:           Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

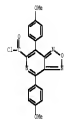
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PATIENT NO.	KIND	DATE	APPLICATION NO.	DATE
NO. 2005061657	A1	200502167	NO. 2018-7718311	20180120

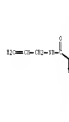




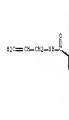
IN 161352-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)



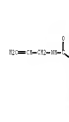
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CN 207 Chemical manufacturer; RCT (Reactant or reagent); IEN (Inert or impregnated material use); PMP (Preparation); URE (Urethane or urea)
CN 104385-84-1 CASUS
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)



IN 161352-84-1 CASUS
CN 207 Chemical manufacturer; RCT (Reactant or reagent); IEN (Inert or impregnated material use); PMP (Preparation); URE (Urethane or urea)
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)
CN 1
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)



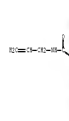
IN 104385-84-1 CASUS
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CN 1
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)



CN 2
CN 119-4-5
CN C1 B4

Py 104385-84-1

IN 104385-84-1 CASUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 4,7-bis(4-methoxyphenyl)-6-methyl-5H-pyridine-4-carboxylic acid (CN THREE NINE)
CN 1
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)



CN 2

CN 85-43-4
CN C1 B4 B2



IN 161352-84-1 CASUS
CN 207 Chemical manufacturer; RCT (Reactant or reagent); IEN (Inert or impregnated material use); PMP (Preparation); URE (Urethane or urea)
CN 104385-84-1 CASUS
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)
CN 1
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)



IN 161352-84-1 CASUS
CN 207 Chemical manufacturer; RCT (Reactant or reagent); IEN (Inert or impregnated material use); PMP (Preparation); URE (Urethane or urea)
CN 104385-84-1 CASUS
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)
CN 1
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)



IN 161352-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)
CN 1
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)



IN 161352-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)
CN 1
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)

* STRUCTURE CHANGES TOO LARGE FOR CLIPART - AVAILABLE VIA OFFLINE PRINT *

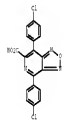
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CN 104385-84-1 CASUS
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)
CN 1
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)



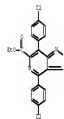
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CN 207 Chemical manufacturer; RCT (Reactant or reagent); IEN (Inert or impregnated material use); PMP (Preparation); URE (Urethane or urea)
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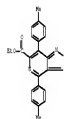
IN 161352-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)
CN 1
CN 104385-84-1 CASUS
CN [1,2,3,4-tetrahydro-6-methyl-5H-pyridine-4-carboxylic acid, 4,7-bis(4-methoxyphenyl)-] (CN THREE NINE)



IN 22796-76-1 CHIRAL
 C1 [1,2,5]benzoxazole[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



IN 22796-76-1 CHIRAL
 C1 [1,2,5]benzoxazole[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(4-ethoxyphenyl)-, ethyl ester (CA INDEX NAME)



IN 421555-24-4 CHIRAL
 C1 [1,2,5]benzoxazole[3,4-c]pyridine-6-carboxylic acid, 4,7-bis(2-thienyl)-,
 ethyl ester (CA INDEX NAME)



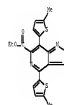
IN 421555-24-4 CHIRAL
 C1 [1,2,5]benzoxazole[3,4-c]pyridine-6-carboxylic acid, 4,7-bis(2-thienyl)-,
 ethyl ester (CA INDEX NAME)



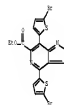
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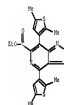
IN 421555-24-4 CHIRAL
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 4,7-bis(2-thienyl)-, ethyl ester (CA INDEX NAME)



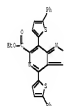
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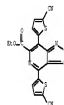
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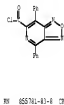
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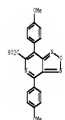
IN 421555-24-4 CHIRAL
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 4,7-bis(2-thienyl)-, ethyl ester (CA INDEX NAME)



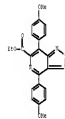
IN 447323-12-4 CHIRAL
 C1 [1,2,5]benzoxazole[3,4-c]pyridine-6-carboxylic acid, 4,7-bis(2-thienyl)-,
 ethyl ester (CA INDEX NAME)



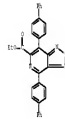
IN 455761-40-4 CHIRAL
 C1 [1,2,5]benzoxazole[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(2-thienyl)-, ethyl ester (CA INDEX NAME)



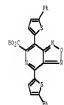
IN 457164-01-4 CHIRAL
 C1 [1,2,5]benzoxazole[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(2-thienyl)-, ethyl ester (CA INDEX NAME)



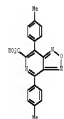
IN 457164-01-4 CHIRAL
 C1 [1,2,5]benzoxazole[3,4-c]pyridine-6-carboxylic acid,
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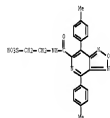
IN 466131-73-2 CHIRAL
 C1 [1,2,5]benzoxazole[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(2-thienyl)-, ethyl ester (CA INDEX NAME)



IN 500866-31-5 CHIRAL
 C1 [1,2,5]benzoxazole[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(2-thienyl)-, ethyl ester (CA INDEX NAME)



IN 500866-31-5 CHIRAL
 C1 [1,2,5]benzoxazole[3,4-c]pyridine-6-carboxylic acid, 4,7-bis(2-thienyl)-,
 ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITEINGS AVAILABLE TO THE READER

117 NUMBER 1 OF 20 COMPUS COMPONENT 181,182 ON 200
ACCESSION NUMBER: 2000-177668 COMPUS [Fulltext](#)
DOCUMENT NUMBER: 149-111759

TITLE: New compositions comprising direct dyes and
sulfonates

INVENTOR(S): Alan, Gregory

INVENTOR ADDRESS(S): 1-Quebec, Fr.

SOURCE: Fr. Demande, Supp.

COOPER. PRIORITY:

DOCUMENT TYPE: Patent

LANGUAGE: French

FINALLY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. FREQ DATE APPLICATION NO. DATE

FR 2612174 AL 20000627 FR 2000-55463 20001220

PRIORITY APPL. INFO.: FR 2000-55463 20001220

COOPER. NUMBER(S): W00001 149-111759

AB The invention relates to a composition including a direct dye and a

sulfonate. It also relates to use of this composition for coloring fibers

text. Thus, a composition containing an azoarylaminoarylamino 3',4'-di-3

me-4,6-dimethyl-8 and ether up to 1114.

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FR 1615-56-1 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-diphenyl-, ethyl ester (CA INDEX NAME)



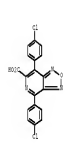
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CI Benzenes, 4,7-diphenyl[1,2,3]benzoxazole[3,4-b]pyridine-6-yl-phenyl-, ethyl ester (CA INDEX NAME)



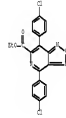
FR 1615-56-1 COMPUS
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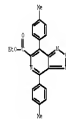
FR 1615-56-1 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-diphenyl-, ethyl ester (CA INDEX NAME)



FR 22378-79-0 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-bis(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



FR 22378-79-0 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-bis(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



FR 22378-79-0 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-bis(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)



FR 42155-24-3 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-di-3-thienyl-, ethyl ester (CA INDEX NAME)



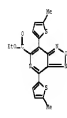
FR 42155-24-3 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-di-3-thienyl-, ethyl ester (CA INDEX NAME)



FR 42155-24-3 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-di-3-thienyl-, ethyl ester (CA INDEX NAME)



FR 42155-24-3 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-bis(4-methyl-2-thienyl)-, ethyl ester (CA INDEX NAME)



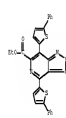
FR 42155-24-3 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-bis(4-methyl-2-thienyl)-, ethyl ester (CA INDEX NAME)



FR 42155-24-3 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-bis(2,5-dimethyl-3-thienyl)-, ethyl ester (CA INDEX NAME)



FR 42155-24-3 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-bis(4-methyl-2-thienyl)-, ethyl ester (CA INDEX NAME)



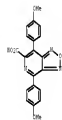
FR 42155-24-3 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-bis(4-methyl-2-thienyl)-, ethyl ester (CA INDEX NAME)



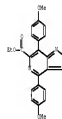
FR 44720-12-4 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-diphenyl-, ethyl ester (CA INDEX NAME)



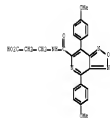
FR 55571-43-4 COMPUS
CI [1,2,3]benzoxazole[3,4-b]pyridine-6-carboxylic acid, 4,7-bis(4-methyl-2-thienyl)-, ethyl ester (CA INDEX NAME)



65 627646-4-1 CORDS
 67 [1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene], ethyl ester (CA 2008 006)

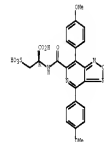


68 621534-4-4 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)



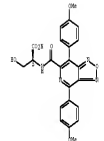
69 621533-0-4 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)

Handwritten stereochemistry.



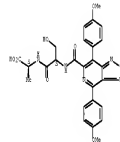
69 621533-0-3 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)

Handwritten stereochemistry.



69 621533-0-4 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)

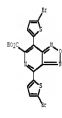
Handwritten stereochemistry.



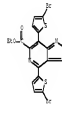
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RI FORM.

117 NUMBER 18 OF 19 CORDS COPYRIGHT 2011 ACS on RSC
 ACCESSION NUMBER: 2011144613 CORDS 2100000
 DOCUMENT NUMBER: 146104352
 TITLE: Toward a Rational Design of Poly(2,7-Quinoxaline)
 AUTHOR(S): Blazek, Nicolas; Mathias, Alexandre; Gontier, David; Waack, Stefan; Hsiao, Shih-Yung; Pflaue, Barbara; Balciute, Michal; Dumortier, Gilles; Tan, Ben; Leclerc, Patric
 CORPORATE SOURCE: Centre Research, Electroactive and Bioactive Polymers, Department of Chemie, Universitat Zurich, Winterthurerstr. 190, CH-8057, Zurich
 SOURCE: Journal of the American Chemical Society (2008), 130(27), 721-724
 CORDS COUNTRY CODE: 0000-7843
 PUBLISHED: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 CORDS SOURCE(S): CORDS 146104352
 63 From these studies and others, several alternating polymeric structures were studied to develop optimized poly(2,7-quinoxaline) devices for solar cell applications. Related low band gap alternating copolymers were obtained via a Suzuki coupling reaction. A good correlation between PTE, short-circuit current, open-circuit voltage, and the optical band gap, and the band gap energies of the corresponding polymers was obtained. This study reveals that the alternating copolymers have energy level as mainly fixed by the quinoxaline moiety, whereas the band gap energy level is mainly related to the nature of the electron-withdrawing component. However, short-circuit performance was not mainly driven by the energy level of the materials. Clearly, the molecular weight and the overall conjugation of the polymers are other significant parameters to consider when developing new polymers for solar cells. Preliminary measurements revealed nice results of up to 1.45 mW/cm² and a power conversion efficiency (PCE) up to 3.8%. Further experiments are anticipated through a rational design of new gap-low band gap poly(2,7-quinoxaline) devices.
 67 27/2/2011-19-19
 RI: REP (Physical, engineering or chemical process) / RPP (Properties) / RSR (Publication or secondary) / RCT (Structure), RPP (Optical properties)

REP (Properties); RPP (Properties); RCT (Structure or process)
 67 120716-1-1 CORDS
 67 [1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene], ethyl ester (CA 2008 006)



67 627646-2-2 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)
 67 621534-3-4 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)



65 CITING REP COUNT: 274 THERE ARE 274 CORDS RECORDS THAT CITE THIS RECORD (CA 2008 006)

REFERENCE COUNT: 104 THERE ARE 104 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RI FORM.

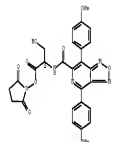
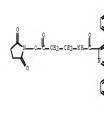
117 NUMBER 18 OF 19 CORDS COPYRIGHT 2011 ACS on RSC
 ACCESSION NUMBER: 2011144613 CORDS 2100000
 DOCUMENT NUMBER: 146104352
 TITLE: Fluorescent dye-based diagnostic agent for labeling antibody, and diagnostic method using it

DICTIONARY (S): Index, Shirohito
 ENTRY ADDRESS(S): Zepes
 SOURCE: Jpn. Kokai Tokkyo Koho, Gijo. CORDS 21000
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 PUBLISHED DATE: 2008-01-14
 PUBLISHED COUNTRY: Japan

INVENTOR NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007253779	A	20070206	JP 2006-142644	20060503
PUBLISHED INVENTOR, COUNTRY			JP 2006-142644	20060503

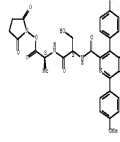
67 621534-3-2 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)
 67 621534-3-3 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)

67 621534-3-4 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)
 67 621534-3-5 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)



69 621533-0-4 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)

Handwritten stereochemistry.

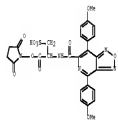


69 621533-0-4 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)

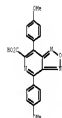
Handwritten stereochemistry.

69 621533-0-4 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)

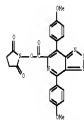
69 621533-0-4 CORDS
 67 [3-amine, 8-[(4,6-bis(4-methoxyphenyl)[1,2,3,5-tetraakis(4,6-epoxydodec-8-en-2-ylidene)-4-oxo-4H-chromene-2-ylidene]]-2-ylidene] (CA 2008 006)



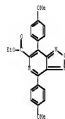
11	655781-43-1P 655781-43-1SP 655781-43-1D
12	1,1'-[2,2'-(5,5'-di-4-thienyl)-5,5'-bibenzene]-4,4'-dicarboxylic acid
13	655781-43-1F
14	Re: RCT (Reactant); SPB (Synthetic preparation); PBP (Preparation); RGT (Reactant or reagent)
15	(Fluorescent dye-coated diagnostic agent for labeling antibody, and diagnostic method)
16	655781-43-4 CBUS
17	[1,2,5]Oxadiazole[3,4-c]pyridine-6-carboxylic acid, 4-[3-(4-methylphenyl)]- (CA, DCEI SWE)



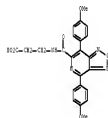
CH [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
4,7-bis(4-methoxyphenyl)-, 2,5-dioxo-2-oxorolidinyl ester (CA EXPOS NRG)



FN 157148-00-1 CAPSUS
 CN (1,2,5)Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis[4-methoxyphenyl]-, ethyl ester (CA INDEX NAME

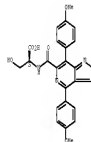


IN β -Alanine, N-[[4,3-bis(4-methoxyphenyl)(1,2,5)oxadiazolo(3,4-c)pyridin-6-yl]carbonyl]- (CA 7505X 10M1)



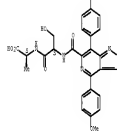
CU L-Serine, N-[4, 7-bis(4-methoxyphenyl)-1, 2, 5-oxadiazolo[3, 4-c]pyridine-6-yl]carbonyl]- (CA INDEX NAME)

Absolute stereochemistry.

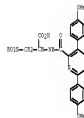


EN 921935-85-9 CMAPUS
CN L-Alanine, N-[[[4,7-bis(4-methoxyphenyl)-[1,2,5]oxadiazolo[3,4-c]pyridine-6-yl]carbonyl]-L-seryl- (CIN INDEX NAME)

Absolute stereochemistry.



CN Alanine, N-[[4,7-bis(4-methoxyphenyl)-1,2,5]oxadiazolo[3,4-c]pyrimidin-6-yl]carbonyl]-3-sulfo- (CA INDEX NAME)



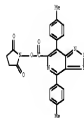
111 NUMBER 12 OF 28 CAPSULE CONTAINER 3411 ACS ON RW
ACCESSION NUMBER: 2017-34743 CAPSULE P-11
DOCUMENT NUMBER: 16-03129
TITLE: Mating agents containing aqueous EL colostrum, their
detection, and spray devices
INVENTOR(S): Issai, Shunichiro
PATENT ASSIGNEE(S): Japan
SOURCE: Jpn. Kokai Tokkyo Koho, Nig.
COCHR: JCOCHS
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
PATENT ACT NUM. CHENT: 1
PATENT INFORMATION:

PARENT NO.	FEED DATE	APPLICATION NO.	DATE
JP 2007030603	A	JP 2005-31764	20051220
PRIORITY APPUS. INFO.:		JP 2005-192046	A 20050630
OFFICE CORRECTIO(S):	MOBERT 1.66/231134		

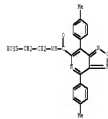
AB The marking agents contain solvents and 21 kinds of organic EL fluorescent colorants comprising 5-membered ring compounds having conjugated system and containing 21 kinds of hetero atoms, Se, or B. Objects are marked by spraying with the marking agents, and deposited marking agents are detected by irradiating excitation light, thereby inducing light emission from the fluorescent colorants. Thus, an yellow-emitting marking agent contained MeOH and an activated water of osmiumtetroxide I.

RE: DMF (Industrial manufacture); RCT (Reactant); TSM (Technical or engineering material use); PREP (Preparation); RACT (Reactant or reagent); REPE (Repeat)

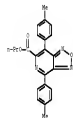
CH [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
4,7-bis(4-methylbenzyl)-, 2,5-dioxo-1-oxazolidinyl ester (CA 10783 100M)



17	14-0000-05-7	512180-67-1X
	EU: DMF (Industrial manufacture); TM: (Technical or engineered material use); PEP: (Preparation); GHS (Gases)	
	Smoking agents containing organic EU solvents, their detection, and spray detection	
18	14-0000-55-7	CLPMS
19	Etanethiolic acid, 2-[[[4-(4-methylphenyl) [1, 3, 5]oxadiazol-5-yl, 6-oxo-6-yl]carboxyl]amino]- (G, DCEI N00E)	



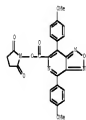
EN 924260-67-1 CAPLOS
 CN (1,2,5)Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
 4,3-bis[4-methylphenyl]-, propyl ester (CA DUTEX 1006)



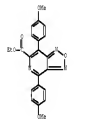
IT 901866-53-5
 RE: RCT [Reactant]; RCT [Reactant or reagent]
 (marking agents containing organic RE colorants, their detection, and spray
 devices)
 EN 901866-53-5 CASUS
 CN [1,2,5]Oxadiazolo[3,4-c]pyridine-4-carboxylic acid,
 7-bis(4-methylphenyl)- (CA INDEX NAME)

O=C1C(=O)N(C(=O)N1)c2ccccc2

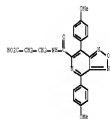
117 NUMBER 12 OF 20 CASPS CASPS01211211 ACS on STW
 ACCESSION NUMBER: 2007141564 CASPS Full-text
 DOCUMENT NUMBER: 14727884
 TITLE: Fluorescent copolymers of azais and oxalimide with
 1,6-diphenyl-1,3,5-triazine-2,4,6-triyl-2,4,6-trisubstituted-
 2,6-pyridine-3,5-dicarboxylic acid: preparation and
 properties
 AUTHOR(S): Belikov, Maxim Gennadiyevich; Popov, Ilya
 CORPORATE SOURCE: Department of Organic Chemistry, "Polisscience"
 University of Bucharest, Bucharest, 060042, Rom.
 REVEN ROMANIA on Chem (2006), 31(7-8), 467-490
 CODEN: ROMACH; ISSN: 0035-3830
 PUBLISHER: Elsevier Academic Press
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Fluorescent copolymers are widely used in anal. and medicine. The authors
 want for this study how oxalimide and isure. The copolymer reacts



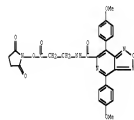
RX 857048-01-1 CAPLUS
 CU [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(4-methoxyphenyl)-, ethyl ester [CA INDEX NAME]



CU β -Alanine, N-[[[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]- (CA DITE NINE)

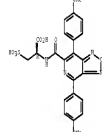


CH β -alanate, N-[[4,7-bis(4-methoxyphenyl)(1,2,5)oxadiazolo(3,4-c)pyridin-6-yl]carbonyl]-, 2,5-thioxo-1-pyrrolididyl ester (CA INDEX NAME)



IN 921925-01-5 CAPLOS
 CN 1-Alanine, N-[(4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]-3-sulfo- (CA EINEK NAME)

Absolute stereochemistry

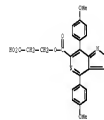


EN 1-Serine, N-[(4,1-bis (4-methoxyphenyl) [1,2,5]oxadiazolo[3,4-c]pyridin-6-yl)carbonyl]- (CA INDEX NAME)

Absolute stereochemistry

OC(=O)CNC(=O)c1c(C#N)c(C#N)c(C#N)c1-c1ccc(C#N)cc1

FN 921935-44-2 CAPUS
 CH [1,2,5]Oxadiazolo[3,4-c]pyridine-4-carboxylic acid,
 4,7-bis(4-methoxyphenyl)-, 2-carboxyethyl ester (CA INDEX NAME)



06-CITING REF COUNT: 1 THERE ARE 1 CARLOS ROOSES THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE ON THE FD FORM

117 JANUARY 15 OF 29 CARDS COPYRIGHT 1911 ACS ON STM
 ACCESSION NUMBER: 140143499 CARDS Full-text
 DOCUMENT NUMBER: 146128245
 TITLE: Cell staining method using intercalator fluorescent dye
 INVENTOR(S): Isebe, Shinichiro
 PATENT ASSIGNEE(S): Japan
 SOURCE: Jpn. Res. Tokyoku Resh. Bldg.
 COUNTRY: JAPAN
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PLATING NO.	RECD	DATE	APPLICATION NO.	DATE
PP 20071848	A	2007/11/16	PP 2205-121666	10/26/08
PP 20071848 - DPM-1				10/26/08
AB 1. The following method is provided, which enables a fluorescence measurement even with a microcrystalline test sample in a dry state. The method involves using as a fluorescence dye an intermediate to be used for detecting a dimethylamino DMB, which has a positive charge and a large positive fluorescence quantum yield, and at least one excitation part consisting of an sp ² group (X: (electro)electron-donating group and bond with the binding part through a connector, for example microcrystalline as a test sample, and measure fluorescence of the test sample.				
02/25-12/08	2007/11/16	02/25-12/08		
50/62-01-21				
Re: RMP (dimethylamino) reagent unit; DMB (pyrene) prepolymer; A307 (hydrolytic) PMP (Prepolymer);				
(well standing under using laserexcited fluorescence dye)				
08/28/10-01-02/08/10				
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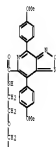


FIG. 2-38



PAGE 1-B

```

PIN 660134-73-7 CAPLUS
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    5-[3,2-[2,3-[3,2-[3,2-[2,3-aziridino]propyl]ethoxy]propyl]-3,6,7,8-
    tetrahydro-1,3,6,8-tetraoxabenz[1,2-d]thiophene-2(1H)-
    yl]peroxyethoxyethoxy]propyl]-4,7-bis-(2-methoxyphenyl)-,
    2,2,2-trifluoroacetate [1:1] (X INDEX NAME)

CM  1

CM  660134-73-6
CM  C54 9601 N7 004

```

PAGES 1-3

*CC(C)(C)CCCCC(=O)Nc1ccc(cc1)-c2cc3c(c(NC(=O)c4ccc(cc4)*)n2)c5ccccc5

PAGE 2-4

ON 2
 CPSI 76-05-1
 CNP 02 JUL 83 00



PN 080134-75-6 CARLOS
CN [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxamide,
N⁹-[(1,3,4,6-tetracyano-1,3,4,6-tetrazabenzox[1,2-f]
2,7-diyl)bis(3,1-propanediyl)-2,1-ethanediyl]-2,1-ethanediyl-3,1-
propanediyl)]bis(4,1-bis(4-methylphenyl))- (CA CHEX NAME)

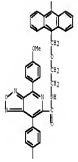
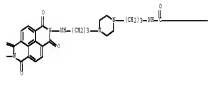
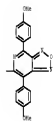
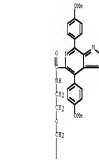





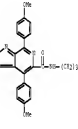
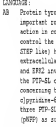




<p>FIGURE 1-A</p>  <p>FIGURE 1-B</p>  <p>FIGURE 1-C</p>  <p>FIGURE 1-D</p>  <p>FIGURE 1-E</p> 	<p>FIGURE 1-F</p>  <p>FIGURE 1-G</p> 	<p>FIGURE 1-H</p>  <p>FIGURE 1-I</p> 
<p>FIGURE 1-J</p>  <p>FIGURE 1-K</p>  <p>FIGURE 1-L</p> 	<p>FIGURE 1-M</p>  <p>FIGURE 1-N</p> 	<p>FIGURE 1-O</p> 

FIG. 1-3

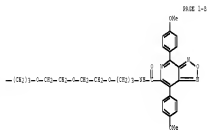


FIG. 1-3

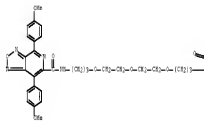


FIG. 1-4

ON 2
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 CN 76-15-1



FIG. 1-5 (continued)
 CN 76-15-1
 CN 76-15-1
 CN 76-15-1

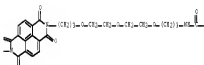


FIG. 1-6

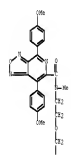
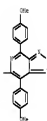


FIG. 1-7

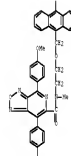


FIG. 1-8

FIG. 1-9
 CN 76-15-1
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 CN 76-15-1

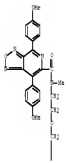


FIG. 1-9

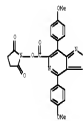


FIG. 1-10
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 CN 76-15-1

FIG. 1-11
 CN 76-15-1
 CN 76-15-1
 CN 76-15-1



FIG. 1-12

FIG. 1-13
 CN 76-15-1
 CN 76-15-1
 CN 76-15-1

FIG. 1-14
 CN 76-15-1
 CN 76-15-1
 CN 76-15-1

FIG. 1-15
 CN 76-15-1
 CN 76-15-1
 CN 76-15-1

FIG. 1-16
 CN 76-15-1
 CN 76-15-1
 CN 76-15-1

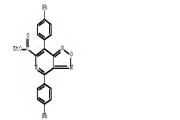


FIG. 1-17
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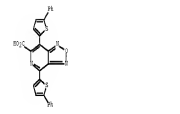


FIG. 1-18
 CN 76-15-1
 CN 76-15-1
 CN 76-15-1

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DOCUMENT NUMBER:	10-06440	
TITLE:	Single-layer organic el devices	
INVENTOR(S):	Shima, Shunichiro	
APPLICANT(S):	Metallum, Inc., Japan; Takemura, Shigeo	
DATE:	PTC Int. Appl., 25 pp.	
COINVENTOR(S):	COINVENTOR(S)	
DOCUMENT TYPE:	Patent	
LANGUAGE:	Japanese	
FIGURES ACC. NUM. CONT.	1	
FIGURE INFORMATION:		

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[illegible]

IT 665781-55-70
PL: RCT (Reactant); SYN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(single-layer organic el device)

EN 665781-44-9 CMLC05

CN [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
4,4'-di(4-oxo-2,3,4,5-tetrahydropyridin-6-yl)-

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containing 1 :

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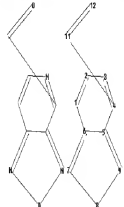
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ring nodes :
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chain bonds :
6-11 11-12
ring bonds :
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exact/non exact bonds :

exact/non exact bonds :
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ring nodes :
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chain bonds :
1-12 6-14
ring bonds :

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isolated ring systems :
containing 1 :

Match level :
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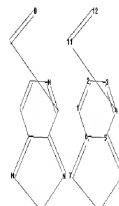
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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.acs.org/regul/infocopy/infocopy.htm>

o a 128 use full
o Unloading C:\Program Files\ATSEP\Questar\10841012.rtc



chain nodes :
13 14
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
1-12 6-14
ring bonds :



chain nodes :
11 12
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
6-11 11-12
ring bonds :
1-2 1-4 1-6 2-4 3-4 4-6 5-6 5-8 6-7 7-8 8-9
exact/non exact bonds :
197.68 1761.24
FULL INITIATED COST
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CH SUBSCRIPTION PRICE
0.00 -521.20

Match level :
1:None 3:None 3:None 4:None 5:None 6:None 7:None 8:None 9:None 11:CLASS
12:CLASS

122 STRUCTURE UNLOADED

o a 128 use full
FULL SEARCH INITIATED 00:06:42 FILE "REGISTRY"
FULL SEARCH COMPLETED - 136 TO TERMINATE

110:04 PROCESSED 136 ITERATIONS 0 HOURS
SEARCH TIME: 01:01:01

120 0 SED SED FILE 120

o a 128 use full
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o a 128 use full
o Unloading C:\Program Files\ATSEP\Questar\10841012.rtc

chain nodes :
11 12
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
6-11 11-12
ring bonds :
1-2 1-4 1-6 2-4 3-4 4-6 5-6 5-8 6-7 7-8 8-9
exact/non exact bonds :

1-2 1-4 1-6 1-8 2-4 4-6 5-6 5-8 6-7 7-8 8-9
exact/non exact bonds :
197.68 1761.24
FULL INITIATED COST
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CH SUBSCRIPTION PRICE
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o a 128 use full
o Unloading C:\Program Files\ATSEP\Questar\10841012.rtc

chain nodes :
11 12
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
6-11 11-12
ring bonds :
1-2 1-4 1-6 2-4 3-4 4-6 5-6 5-8 6-7 7-8 8-9
exact/non exact bonds :

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exact/non exact bonds :
197.68 1761.24
FULL INITIATED COST
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CH SUBSCRIPTION PRICE
0.00 -521.20

FILE "REGISTRY" INITIATED AT 00:00:00 ON 10 JUN 2011
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Property values tagged with IC are from the IC/IC/IC/IT data file
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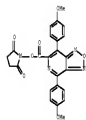
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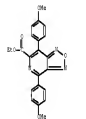
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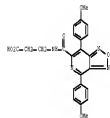
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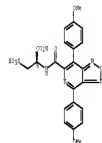
RX 857048-81-1 CAPJUS
 CF [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(4-methoxyphenyl)-, ethyl ester (CA INDEX NAME)



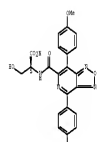
RX 921934-97-6 CASUS
 CN β -Alanine, N-[[[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]- (CA INDEX NAME)



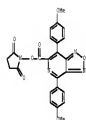
Absolute stereochemistry



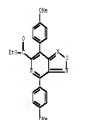
IN 821435-03-7 CAPLUS
CN L-Glutine, N-[[[4,7-bis(4-methoxyphenyl)-1,2,5-oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]- (Ch INDEX NMI)



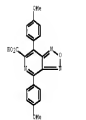
CH 2-Alanine, N-[[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbamoyl]-D- (CA TITRE NAME)



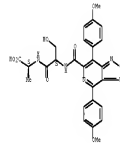
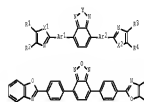
RE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)



Q29 ANSWER 6 OF 81 CAPUS COPYRIGHT 2011 ACS on STM
ACCESSION NUMBER: 20081136172 CAPUS Full-text



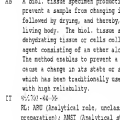
RX 857048-81-2 CASUS
 CN [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
 4,7-di-(4-methoxyphenyl)-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE ON THE RECORD



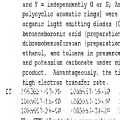
JP 2008296694	A	20081127	JP 2007-133049	20070518
PRIORITY APPL. INFO.			JP 2007-133049	20070518



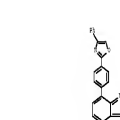
CH [1,2,5]oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
4,7-bis(4-methoxyphenyl)-, 2,5-dioxo-1-pyrrolidinyl ester (CA INDEX 5081)



AB The title compds. with general formula I (wherein R1 - R4 = independently H, C1-6 alkyl, C6-10 (un)substituted aryl, or R1 and R2 taken together with the carbon atoms to which they are attached form a ring, or R3 and R4 taken



CU 2,1,3-Benzoxadiazole, 4,7-bis[4-(4-phenyl-2-oxazolyl)phenyl]- (cf. ENHEI NAME)



1

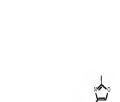


Figure 1-8

FIG 104661-19-1 CASUS
 CN 2,1,3-Benzoxadiazole, 4,7-bis[4-(2-benzoxazolyl)phenyl]- (CN DDEE NAME)

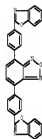


FIG 104661-19-7 CASUS
 CN 2,1,3-Benzoxadiazole, 4,7-bis[4'-(2-oxazolyl)[1,1'-biphenyl-4-yl]- (CN DDEE NAME)

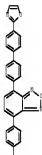


FIG 1-3-A

FIG 104661-19-9 CASUS
 CN 2,1,3-Benzoxadiazole, 4,7-bis[5-(6-ethyl-1-oxazolyl)-1-naphthylmethyl]- (CN DDEE NAME)

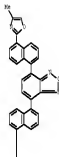


FIG 1-4

FIG 104661-19-3 CASUS
 CN 2,1,3-Benzoxadiazole, 4,7-bis[5-(6-ethyl-1-benzoxazolyl)-1-naphthylmethyl]- (CN DDEE NAME)



FIG 1-5-A

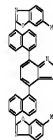


FIG 104661-21-4 CASUS
 CN 2,1,3-Benzoxadiazole, 4,7-bis[4-(2-benzoxazolyl)phenyl]- (CN DDEE NAME)

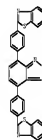


FIG 104661-21-6 CASUS
 CN 2,1,3-Benzoxadiazole, 6-[4'-(2-benzoxazolyl)[1,1'-biphenyl-4-yl]-5-(2-benzoxazolyl)phenyl]- (CN DDEE NAME)

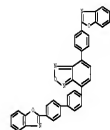


FIG 104661-14-2 CASUS
 CN 2,1,3-Benzoxadiazole, 6-[4'-(2-benzoxazolyl)[1,1'-biphenyl-4-yl]-5-(2-benzoxazolyl)phenyl]- (CN DDEE NAME)

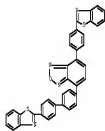
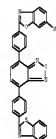


FIG 104661-19-7 CASUS
 CN 2,1,3-Benzoxadiazole, 6-[4-(2-benzoxazolyl)phenyl]-7-[6-(6-ethyl-2-benzoxazolyl)phenyl]- (CN DDEE NAME)



129 JANUARY 7 BY AL CASUS C09P0300 2011 026 on 07N
 ACCESSION NUMBER: 2009070446 CASUS [Fulltext](#)
 DOCUMENT NUMBER: 1401220474
 TITLE: Polycyclizable azole fluorescent dyes with high fluorescence intensity and good weather resistance, and their manufacture and polymers
 AUTHOR: Imae, Shizuhiko; Matsuy, Shota; Niwata, Naoki; Tanaka, Tetsuro; Sawashita, Shinsuke; Tanaka, Takanori
 PUBLISHED BY: Kenza Chemicals, Inc., Japan
 SOURCE: Jpn. Mater. Soc. Jpn. Soc. Chem. 2009, 52(2): 1-10
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 PUBLISHED BY: Jpn. Soc. Chem. 2009, 52(2): 1-10
 PUBLISHED BY: Jpn. Soc. Chem. 2009, 52(2): 1-10

ENTRY NO.	ENTRY DATE	APPLICATION NO.	DATE
JP 2008045892	A	200804014	20070131
INVENTOR: JPN. MAT. SOC. JPN. SOC. CHEM.		JP 2007-016967	20070131
INVENTOR: JPN. MAT. SOC. JPN. SOC. CHEM.		JP 2007-016967	20070131
INVENTOR: JPN. MAT. SOC. JPN. SOC. CHEM.		COMBUCT 140-220506	20070131

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title Fluorescent dyes are represented by general formula of I-III (I = oxadiazole, C, N, O, etc.; Y = N, PAC, P, Hetero, H, S, B, halo, alkoxy, etc.; or have one of R¹, R², and R³ = alkoxy- or alkoxy-terminated group; R¹, R² = asymmetric ring-containing aliphatic heterocyclic, aromatic heterocyclic; R³ = halo, C₁-C₁₀, H, F, Ph). The fluorescent dyes are manufactured from acid chloride derivative (one of R¹, R², and R³ = C₁-C₁₀) of I-III and alkyl-terminating active 3 component, or manufactured from haloalkyl derivative (one of R¹, R², and R³ = haloalkyl) of I-III one element or alkoxy-terminated B-containing heterocyclic. Thus, I (R¹ = C₁-C₁₀), II (R² = C₁-C₁₀), III (R³ = C₁-C₁₀) was manufactured from 4-oxadiazolopyrene at 6 steps.

Homopolymer of I showed yellow fluorescence, which was not changed after exposing to natural light under air at room temperature for 3 wk.
 129 JANUARY 7 BY AL CASUS C09P0300 2011 026 on 07N
 ACCESSION NUMBER: 2009070446 CASUS [Fulltext](#)
 DOCUMENT NUMBER: 1401220474
 TITLE: Polycyclizable azole fluorescent dyes with high fluorescence intensity and good weather resistance, and their manufacture and polymers
 AUTHOR: Imae, Shizuhiko; Matsuy, Shota; Niwata, Naoki; Tanaka, Tetsuro; Sawashita, Shinsuke; Tanaka, Takanori
 PUBLISHED BY: Kenza Chemicals, Inc., Japan
 SOURCE: Jpn. Mater. Soc. Jpn. Soc. Chem. 2009, 52(2): 1-10
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 PUBLISHED BY: Jpn. Soc. Chem. 2009, 52(2): 1-10
 PUBLISHED BY: Jpn. Soc. Chem. 2009, 52(2): 1-10

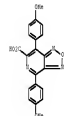


FIG 104661-19-7 CASUS
 CN 2,1,3-Benzoxadiazole, 6-[4-(2-benzoxazolyl)phenyl]-7-[6-(6-ethyl-2-benzoxazolyl)phenyl]- (CN DDEE NAME)

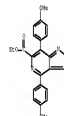


FIG 104661-21-4 CASUS
 CN 2,1,3-Benzoxadiazole, 6-[4-(2-benzoxazolyl)phenyl]-7-[6-(6-ethyl-2-benzoxazolyl)phenyl]- (CN DDEE NAME)



W 7650-55-2 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-diphenyl-, ethyl ester (CA INDEX NAME)]



W 7650-56-1 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-diphenyl-, methyl ester (CA INDEX NAME)]



W 7650-57-2 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-diphenyl- (CA INDEX NAME)]



W 7650-58-3 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-diphenyl-, ethyl ester (CA INDEX NAME)]



W 8570-35-4 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-diphenyl- (CA INDEX NAME)]



W 8570-37-8 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine, 4,7-diphenyl- (CA INDEX NAME)]



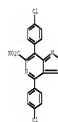
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C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-diphenyl- (CA INDEX NAME)]



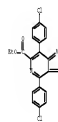
W 12620-42-4 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-diphenyl-, ethyl ester (CA INDEX NAME)]



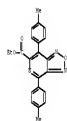
W 22430-71-3 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-bis(4-chlorophenyl)- (CA INDEX NAME)]



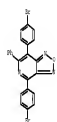
W 22430-72-1 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-bis(4-chlorophenyl)-, ethyl ester (CA INDEX NAME)]



W 22430-73-1 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-bis(4-methylphenyl)-, ethyl ester (CA INDEX NAME)]



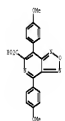
W 53430-44-4 CASUS
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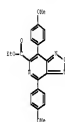
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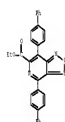
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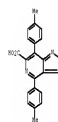
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C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-bis(4-methylphenyl)-, ethyl ester (CA INDEX NAME)]



W 65070-43-4 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-bis(4-methylphenyl)-, ethyl ester (CA INDEX NAME)]



W 90886-51-5 CASUS
C [1,2,5-trimethyl-4-oxo-1H-pyridine-6-carboxylic acid, 4,7-bis(4-methylphenyl)-, ethyl ester (CA INDEX NAME)]



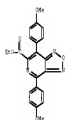
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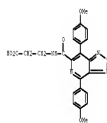
REFERENCE CONT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS KEYWORD. ALL CITATIONS AVAILABLE TO THE PI NUMBER

130 ABSTRACT 13 OF 61 CASUS COPYRIGHT 2011 ACS OR RSC
3-CELESTINE NUMBER 110154413 CASUS FULL-TEXT
DOCUMENT NUMBER 1461505682
TITLE: Chemical compositions containing electrochromism
TYPE: paper
PATENT NUMBER(S): none, Scientific
SOURCE: Jpn. Kokai Tokkyo Koho, Jipg.
CLASS: J0300P
DOCUMENT TYPE: Patent
1-ABSTRACT
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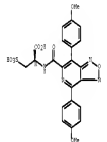
PATENT NO. _____ RECD DATE _____ APPLICATION NO. _____ DATE _____
 JP 2002158976 A 20000504 EP 2220-244955 20001024
 PRIORITARY APPPL. INFO.:
 OTHER PUBLICATIONS: W0002 160-502042
 AB The invention relates to a nematic composition containing an organic fluorescent dye having an organic electroluminescent (EL) emitting region consisting of conjugated double derivatives or diethers derivatives including 2,1-naphthene, acetylene atom, or boron atom. The fluorescent dye may further have an ester acid or pyridine donor region. The nematic composition provides amplifying brightness to blue, blue-green, without causing damage. For example, 6,7-bis(4-methoxyphenyl)-(1,1,5,5-tetraazolo(3,4-c)pyridine-6-oxoethyl) acid 3,4-diaceto and 3,4-diphenylpropanediol derivative was prepared and measured for its fluorescent property for 2 hr.
 IC 55729-12-12 32264 7-49 313 13-49
 55729-12-12 32264 13-49
 RE: CDS (Chemical com); RCT (Reactant); SPN (Synthetic preparation); BGS (Biological study); PEP (Preparation); RAC (Reactant or reagent); CDS (Chemical composition); containing electroluminescent dye
 CR 65768-16-4 CDS
 CR 11,2,5-tetraazolo(3,4-c)pyridine-6-oxoethyl ester 4,7-bis(4-methoxyphenyl)-, atyl ester (CA INDEX NAME)
 Absolute stereochemistry.



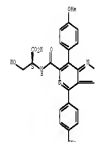
RE 52159-12-4 CDS
 CR 3-bromo-5-[4,7-bis(4-methoxyphenyl)-(1,1,5,5-tetraazolo(3,4-c)pyridine-6-oxoethyl)-2-oxido-, 2,5-dione-1-pyrrolidinyl ester (CA INDEX NAME)
 Absolute stereochemistry.



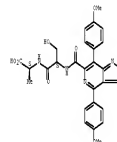
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 Absolute stereochemistry.



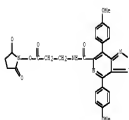
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 Absolute stereochemistry.



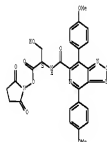
RE 52159-12-4 CDS
 CR 3-bromo-5-[4,7-bis(4-methoxyphenyl)-(1,1,5,5-tetraazolo(3,4-c)pyridine-6-oxoethyl)-2-oxido-, 2,5-dione-1-pyrrolidinyl ester (CA INDEX NAME)
 Absolute stereochemistry.



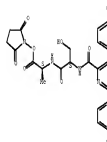
IC 55729-12-12 32264 7-49 313 13-49
 55729-12-12 32264 13-49
 RE: CDS (Chemical com); SPN (Synthetic preparation); BGS (Biological study); PEP (Preparation); CDS (Chemical composition); containing electroluminescent dye
 RE 52159-12-4 CDS
 CR 3-bromo-5-[4,7-bis(4-methoxyphenyl)-(1,1,5,5-tetraazolo(3,4-c)pyridine-6-oxoethyl)-2-oxido-, 2,5-dione-1-pyrrolidinyl ester (CA INDEX NAME)
 Absolute stereochemistry.



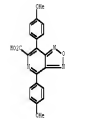
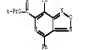
RE 52159-12-4 CDS
 CR 3-bromo-5-[4,7-bis(4-methoxyphenyl)-(1,1,5,5-tetraazolo(3,4-c)pyridine-6-oxoethyl)-2-oxido-, 2,5-dione-1-pyrrolidinyl ester (CA INDEX NAME)
 Absolute stereochemistry.



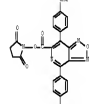
RE 52159-12-4 CDS
 CR 3-bromo-5-[4,7-bis(4-methoxyphenyl)-(1,1,5,5-tetraazolo(3,4-c)pyridine-6-oxoethyl)-2-oxido-, 2,5-dione-1-pyrrolidinyl ester (CA INDEX NAME)
 Absolute stereochemistry.



IC 55729-12-12 32264 7-49 313 13-49
 55729-12-12 32264 13-49
 RE: CDS (Chemical com); RAC (Reactant or reagent); SPN (Synthetic preparation); BGS (Biological study); PEP (Preparation); CDS (Chemical composition); containing electroluminescent dye
 RE 52159-12-4 CDS
 CR 3-bromo-5-[4,7-bis(4-methoxyphenyl)-(1,1,5,5-tetraazolo(3,4-c)pyridine-6-oxoethyl)-2-oxido-, 2,5-dione-1-pyrrolidinyl ester (CA INDEX NAME)
 Absolute stereochemistry.



RE 52159-12-4 CDS
 CR 3-bromo-5-[4,7-bis(4-methoxyphenyl)-(1,1,5,5-tetraazolo(3,4-c)pyridine-6-oxoethyl)-2-oxido-, 2,5-dione-1-pyrrolidinyl ester (CA INDEX NAME)
 Absolute stereochemistry.



120 JANUARY 12 OF 61 CDS/US COPYRIGHT 2011 ACS or STN
 1700000000000000 2010 12203 CDS/US
 1700000000000000 140 12203 CDS/US
 TITLE:
 Biological specimen labeled with novel fluorescent
 dye, and its preparation method
 Inven. Inventors: Invenors, Inventors, Invenors, Invenors,
 Inventors
 INVENTOR(S):
 PCT Int. Appl. - Epp.
 PCT Int. Appl. - Epp.

EN 921534-99-7 CAPSUS

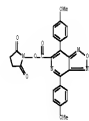
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VU	VU	VU	VU
VV	VV	VV	VV

PRIORITY APPL. INFO.: JP 2006-216395 A 20060728

AB 4. A *biol. specimen* is provided, which can be prepared at low cost, and wherein fluorescence of a fluorescent dye does not disappear even after a long time storage. Also disclosed are a method for preparing such a *biol. specimen*, and a method for observing such a *biol. specimen*. Specifically disclosed is a *biol. specimen*, wherein tissue or cells labeled with a fluorescent dye is fixed onto a support base material. The fluorescent dye possesses a chromogenic portion composed of at least an organic B₂ dye, and the organic B₂ dye is composed of an azole derivative or an imidazole derivative which possesses a conjugated system, while containing more than one kind of heteroatom.

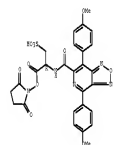
PL: BUI (Biological use, unclassified); BIOL (Biological study); USES (Uses)

CF [1, 2, 5]Oxamazole[3], 4-c-pyridine-6-carboxylic acid,
4,7-bis(4-methoxybenzyl)-, 2,5-dione-1-morrolidinyl ester (CA EXOTEX HANE)



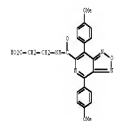
HN 921935-00-6 CAPLUS
 CN 1- α -alanine, N-[(4-{1-bis(4-methoxyphenyl)(1,3,5)-oxadiazolo[3,4-c]pyridin-6-yl}carbonyl)-3-sulfo-, 2,5-dioxo-1-pyrrolidin-1-yl ester (CA INDEX NAME)

Absolute stereochemistry



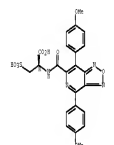
EN 1-*S*-Serine, N-[[[4,1-bis(4-methoxyphenyl)[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]-, 2,5-dioxo-1-pyrrolidinyl ester (C₈ INDEX NAME)

Absolute stereochemistry



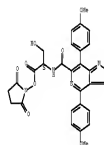
RH 921935-01-5 CAPSUS
 CH 1-Alanine, N-[(4,7-bis(4-methoxyphenyl)(1,2,5)oxadiazole(3,4-c)pyridin-6-yl)carbonyl]-3-sulfo- (CA 151833)

Absolute stereochemistry



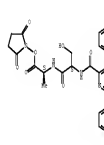
IN 821935-03-7 CAPLOS
CN 1-*S*-Serine, N-[[[4,1-bis(4-methoxyphenyl)(1,2,5)oxadiazolo(3,4-c)pyridin-6-yl]carbonyl]- (CA INDEX NAME)

Absolute stereochemistry



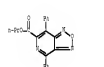
CU [L-phenylalanine, N-[[[4,7-bis(4-methoxyphenyl)-1,2,5-oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]-L-seryl-, 2,5-dioxo-1-pyrrolidinyl ester (CA INDEX NAME)]

Absolute stereochemistry.



PL: RCT (Reactant); RMT (Reactant or reagent)
(Incl. specimen labeled with novel fluorescent dye, and preparation method)

CU [1,2,5]Oxadiazolo[3,4-c]pyridine-5-carboxylic acid, 4,7-diphenyl-, propyl ester (CA INDEX NAME)

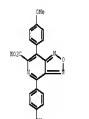


RE: RCT (Reactant); SPB (Synthetic preparation); PPD (Preparation); RCT

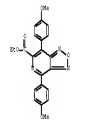
(Reactant or reagent)

(Qual. specimen labeled with novel fluorescent dye, and preparation method)

CH [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
4,7-bis(4-methoxyphenyl)- (CA INDEX NAME)



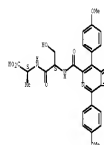
REF 657048-01-1 CAS/US
CI [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(4-methoxyphenyl)-, ethyl ester (CA DISSE NAME)



CU β -Alanine, N-[[[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]- (C8 D00H 10N2)

CU L-phenylalanine, N-[[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]-L-serine- (CA INDEX 8086)

Absolute stereochemistry.



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE SE FORMAT

119 NUMBER 13 OF 1 CAPUS COUNTRIES 2011 ACS on SW
ACCESSION NUMBER: 2011128948 CAPUS Pu-~~cont~~
DOCUMENT NUMBER: 14427394
TITLE: Fluorescent dye-based diagnostic agent for labeling
antibody, and diagnostic method using it
Inoue, Shinichiro
INVENTOR(S):
PATENT ASSOCIATE(S): Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4/9p.
COST: JOKAN
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:



CG.CITING REF COUNT: 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS
RECORD (15 CITINGS)
REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE PE FORMAT

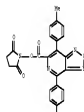
159 AUGUST 15 OF 2017 CAPLID Copyright 2011 ACS on STW
 ACCESSION NUMBER: 2017-04743 CAPLID Pol=acet
 DOCUMENT NUMBER: 146-211129
 TITLE: Mucking agents containing organic H₂ colorants, their
 detection, and spray devices
 INVENTOR(S): Inoue, Shinichiro
 PATENT ASSIGNEE(S): Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, Aipo.
 OTHER: JEXCOM
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY NO. WMO. COUNT: 1
 PATENT INFORMATION:

PRINT NO.	REV	DATE	APPLICATION NO.	DATE
JP 2007039633	A	20070215	JP 2005-377614	20051228
PRIORITY APP. INFO.			JP 2005-187046	A 20050630

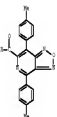
28 The marking agents contain solvents and 21 kinds of organic EL fluorescent colorants comprising 5-membered ring compounds, having outspaced system and containing 21 kinds of hetero atoms, Se, or S. Objects are marked by spraying with the marking agents, and spotchecked marking agents are detected by irradiating excitation light, thereby inducing light emission from the fluorescent colorants. Thus, as yellow-emitting marking agent contained MeCN and as red-emitting agent of marking fluorescent dye I.

EL: EMF (Industrial manufacture); RCT (Reactant); TIM (Technical or engineered material use); PREP (Preparation); RNT (Reactant or reagent);
USES (Uses)
(marking agents containing organic EL colorants, their detection, and spray

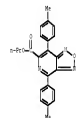
CH [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
4,7-bis(4-methylphenyl)-, 2,5-dioxo-1-pyrrolidinyl ester (CA INDEX NAME)



IT 1-0000-00-0 000-00-0-0-0
 EU IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USIS (Uses)
 marking agents containing organic EU colorants, their detection, and spray devices)
 PH 51000-00-0 CRYSTAL
 CN Phthalosulfonic acid, 2-[[[4,4-bis(4-methylphenyl)[1,2,5]oxadiazolo[3,4-c]pyrimidin-6-yl]carbonyl]amino]- (C8 D000 NAME)

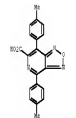


IN 814260-67-1 CAPLOS
 CN (1,2,5)Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis[4-methylphenyl]-, propyl ester <CA INDEX NAME



IT 00000-11-3
 RL: RCT (Reactant); RMT (Reactant or reagent)
 (marking agents containing organic EL colorants, their detection, and spray
 devices)

IN 900466-53-5 CRAPUS
 CN [1,2,5]Oxadiazolo[3,4-c]pyridine-4-carboxylic acid,
 4,7-bis(4-methylphenyl)- (CA INDEX NAME)



129 ANSWER 16 OF 61 CAPUS COPYRIGHT 2011 ACS on STM
ACCESSION NUMBER: 2001:141569 CAPUS Fall-beat
DOCUMENT NUMBER: 143:271884

TITLE:	Fluorescent conjugates of casein and ovalbumin with 4, 7-bis(phenyl-1, 1, 5-methoxycarbonyl-3, 4-bispyridine-6-carboxylic acid) preparations and analogs
AUTHOR(S):	Balea, Mihaela Elena; Popescu, Anghela
CORPORATE SOURCE:	Department of Organic Chemistry, "Politehnica" University of Bucharest, Bucharest, 060042, Rom.
SOURCE:	Revue Roumaine de Chimie (2004), 51 (7-8), 847-850. CODEN: RROCHX, ISSN: 0035-3830
PUBLISHED:	Editorul Academiei Romane
DOCUMENT TYPE:	Journal
LANGUAGE:	English

AB Fluorescent conjugates are widely used in biol. and medicine. The authors used for this study hen ovalbumin and bovine casein. The conjugation reaction

of proteins with 4,4'-diphenyl-1,2,5-oxadiazole[3,4-*g*]cyclopenta-6- carboxylic acid (DOPCA) was performed with micropolymerization solution (MCS) and N-vinylpyrrolidone (NVP). Fluorescent conjugates were prepared by gel chromatography and organic solvent precipitation. Purified fluorescent conjugates were subsequently analyzed by fluorimetry and by sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE). These analyses showed that the tested conjugates maintain yielded fluorescent conjugates at their groups. The strongest emission was obtained with the ovalbumin conjugate. The limits of detection by electrophoresis in presence of detergent for both protein conjugates are also reported.

conjugates are also reported.

2654-3a (99), 6,7-Diethyl-11,2,5-trimethyl-3,4,6-trimethyl-5-oxo-1,2,3,4-tetrahydro-1,2,5-triazole-4-carboxylic acid. Fluorescent bioconjugates

NS: HNT (Analytical); BSU (Biological study, unclassified); PNP (Perspectives); SPH (Synthetic preparation); HNT (Analytical study); BUC (Biological study); PNP (Preparation)

preparation of conjugates of casein and ovalbumin with diethyl-1,2,5-trimethyl-3,4,6-trimethyl-5-oxo-1,2,3,4-tetrahydro-1,2,5-triazole-4-carboxylic acid and study of

CH [1,2,5]Oxadiazole[3,4-c]pyridine-6-carboxylic acid, 4,7-di-*n*-phenyl- (CA 1000000000)



II 56710-4-2
 RE: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of conjugates of casein and ovalbumin with
 diphysyl[2,2,5]osindazole[3,4-c]pyridinecarboxylic acid and study of
 their fluorescent properties and S18-PAGE)

RE 65731-34-0 CASREG
 CN [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid, 4,7-diphenyl- (CA
 INDEX NAME)

TITLE: Development of organic electroluminescence dye
indicator for humulones
INVENTOR(S): Ito, Shunichiro
PATENT ASSIGNEE(S): Japan
SOURCE: PCT Int. Appl., 94pp.
COCODE: P19102
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PRINTED NO.	KIND	DATE	APPLICATION NO.	DATE
WD 2007013601	A1	21070201	MO 1006-WP315018	200608728
W:	AE, AG, AL, AM, AT, AO, AZ, BA, BB, BG, BR, BU, BY, CA, CH, CM, CO, CR, CU, CL, EL, EN, EM, EC, EG, BG, ES, FI, GR, GU, GR, GH, GN, HR, HU, IL, IN, IS, IT, JE, JO, KE, KG, KH, KI, KM, KN, KR, KU, KY, KZ, LA, LB, LC, LI, LK, LR, LS, LT, LU, LV, LY, MA, MG, MK, MN, MO, MP, MQ, MR, MT, MU, MV, MW, MX, MY, MZ, NA, NC, NE, NG, NI, NL, NO, NP, NR, NU, NZ, OI, OM, OS, OT, OU, OV, PA, PE, PG, PH, PK, PL, PM, PN, PR, PT, PU, PY, QA, QD, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RS, RU, RW, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SR, SS, ST, SU, SV, SW, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TR, TT, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ			

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

EP 1252668	AI	21040610	CP 1006-701914	00069728
R: AI, BE, BG, CH, CY, CZ, DE, DK, ES, FI, FR, GR, HU, IL, IS, IT, LT, LU, LV, MC, NL, NO, PL, PT, RO, SE, SK, SI				
EW 0006030361	AI	21040919	CP 1006-03661	00012818
EW 0006030483	AI	21040602	CP 1006-700468	00012817
CP 1001270396	AI	21040924	CP 1006-00352218	00012824
PRIORITY APPL. INFO.:				
			JP 1005-219214	AI 20050128
			JP 1006-256509	AI 20050102
			KO 1006-02315108	M 20060128

OTHER SOURCE(S): NARPAT 146:160299



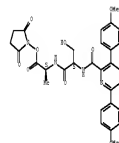
28 Anole electroluminescence dye indicators having spacer regions for nuclear

acids and proteins have been developed. The IL dyes have general structures 1 (R₁, R₂ = H, halo, alkyl, alkenyl, alkynyl, CN, OR, SO₂alkyl, aromatic, heterocyclic; R₃, R₄ = H, thioalkenyl, furan, pyrrole, imidazole, oxazole, thiazole, pyrazoles, pyridones, sulfonyl aryl; X = H, S, O, Se, S with (not) substituents; Y = CH₃, H, H₂C; Z' = alkyl, alkenyl; Ar = Cl, Br, I, CF₃, OCF₃, NH₂, NHMe). The IL dyes also comprise a spacer region -C(R₅)=C-

[illegible]

PL: ADG (Analytical reagent use); SYN (Synthetic preparation); ADST (Analytical study); PREP (Preparation); USES (Uses)

(As above): Development of organic electroluminescence dye indicator for
mimics:
92135-96-0 CAPUS
[*cis*-isomer, 9-[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazole[3,4-*c'*]pyridine-6-yl]oxazonyl-1-ethyl-, 1,5-dioxo-1-pyrrolineimyl ester (CA INDEX NAME)
absolute stereochemistry.

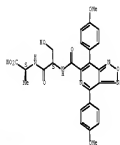


PL: RCT (Reactant); SPB (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(as spacer; development of organic electroluminescence dye indicator for signal s.)

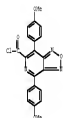
CU L-Alanine, N-[[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazole[3,4-c]pyridine-6-yl]carboxyl]-L-seryl- (CA INDEX NAME)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS ENTRY. ALL REFERENCES ARE PLACED TO THE RIGHT OF ENTRY.

119 AUGUST 17 OF 01 CAPLUS COPYRIGHT 2011 ACS on STM
ACCESSION NUMBER: 2017-136904 CAPLUS Poll-test
DOCUMENT NUMBER: 146-146292

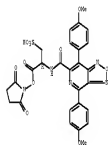


RU 921935-01-1 CASUS
 CN [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carbonyl chloride,
 4,7-bis(4-methoxyphenyl)- (CA INDEX NAME)



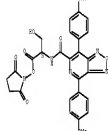
11 012300-02-0F 501311-04-0P 012300-03-0F
 RE: ADG (Analytical reagent use); SPB (Synthetic preparation); ASST
 (Analytical study); PREP (Preparation); USES (Uses)
 (development of organic electroluminescence dye indicator for bisols.)
 RU 501935-02-6 CHLMS
 CU L-Alanine, N-[[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazole[3,4-c]pyridin-6-yl]-2-methyl-2-sulfinyl-, 2,5-dimethyl-2-oxazolidinyl ester (CA DREG NAME)

Absolute stereochemistry

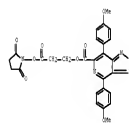


EN 1-*Serine*, *N*-[[[4,3-bis(4-methoxyphenyl)(1,2,5)oxadiazolo], 6-*c*]pyridine-6-yl]carbonyl]-, 2,5-dioxo-1-pyrrolidinyl ester (CA INDEX NAME)

Absolute stereochemistry

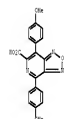


CH (1,2,5)Quinoxaline[3,4-c]pyridine-6-carboxylic acid,
4,7-bis[4-methoxyphenyl]-, 3-[(2,5-dioxo-1-pyrrolidinyl)sul]-3-oxopropyl
ester [CA INCHI NAME]

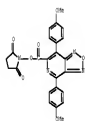


17	852700-41-48	055141-41-40	857010-00-12
	851972-47-48	921511-14-19	851972-14-19

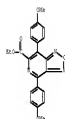
FL: BCT (Reactant); SP: (Synthetic preparation); PEP: (Preparation); PACT (Reactant or reagent)
(development of organic electroluminescence dye indicator for bioassays.)



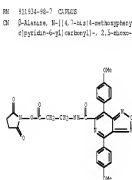
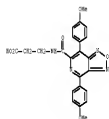
EN 856781-84-9 CAPLIS
CN [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
4,7-bis(4-methoxyphenyl)-, 2,5-dioxo-1-pyrrolidinyl ester (CA INDEX NAME)



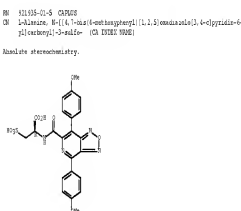
RX 657048-01-1 CAPLOS
 CS [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid,
 4,7-bis(4-methoxybenzyl)-, ethyl ester (CA INDEX NAME)



CU β -Alanine, N-[[[4,7-bis(4-methoxyphenyl)[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]- (CA INDEX NAME)

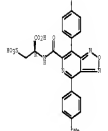


CH β -Alanine, N-[[4,7-bis(4-methoxyphenyl)(1,2,5)oxadiazolo(3,4-g)pyridin-6-yl]carbamoyl]-, 2,5-dioxo-1-oxiridinyl ester (CA INDEX NAME)



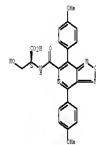
CH 1- α -lactam, N-[[[4,7-bis(4-methoxybenzyl)[1,2,5]oxadiazolo[3,4-c]pyridin-6-yl]carbonyl]-3-sulfo- (CA TEST NAME)

Isolate stereochemistry

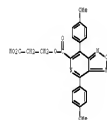


CH 1-Serine, N-[[[4,7-bis(4-methoxyphenyl)(1,2,5)oxadiazolo(3,4-c)pyridin-6-yl]carbonyl]- (CA INDEX NAME)

Absolute stereochemistry

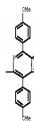


CU [1,2,5]Oxadiazolo[3,4-c]pyridine-4-carboxylic acid,
4,7-bis(4-methoxyphenyl)-, 2-carboxymethyl ester (CA INDEX NAME)



06/CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE ON THE FD FORM

125 ANSWER 14 OF 61 CAPRUS CAPRUS0012011 ACB on STM
ACCESSION NUMBER: 2007.635699 CAPRUS Coll+Inst
DOCUMENT NUMBER: 146:126245
TITLE: Cell staining method using intercalated fluorescence
dye
INVENTOR(S): Issbe, Shunichiro
PATENT ASSIGNEE(S): Japan
SOURCE: Jpn. Repts. Tokai Repts. Jlgp.
CROSS: JX0000
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. CONT: 1
PATENT INFORMATION:



OK 2

C86 16-05-1

C87 C2 H F3 01

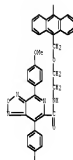
CH 2
CBA 76-05-1
CWF C2 H F3 C

CC1=CC=C(C=C1)C(=O)O

MF 000134-73-8 CASUS
 CN [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxamide,
 N,N'-[1,3,6,8-tetraazacyclo-1,3,6,8-tetraazabenzene[1,2,4-f]phenanthrene-
 2,7-diyl]bis(3,1-propanediol)-2,1-ethanediol-2,1-ethanediol-2,1-
 propanediol]bis[4,3-bis(4-methoxyphenyl)- (CA TREET NAME)

100 555-N, 40-4
 101 HL, RCT (reaction); RACI (Reactant or reagent)
 102 (cell staining method using internal/late fluorescent dye)
 103
 104 555-N1-40-9 C0035
 105 CH [1,2,5]Oxadiazole[3,4-c]pyridine-6-carboxylic acid,
 106 4-[bis(4-methoxyphenyl)-2,5-diazo-1-pyrrolo[2,1-f]azep-3-yl] ester (CA INGEST 10000)

[illegible]



AB Novel heterocyclic and photoreactive liquid crystalline materials (reactive mesogens) with azobenzene groups were synthesized and characterized. A selection of heterocyclic rings, such as benzimidazole, benzimidazole and pyrimidine, was incorporated onto the azobenzene core to control the electro-optic (transmission properties and the structural geometry. Particular emphasis is focused on structure-property relations. It is with the variation of mol. structure and its subsequent effect on the liquid crystalline transition temperatures, were studied.

1-10

AB HEP (Physical, engineering or chemical process); ERP (Properties); PUP (Physical process); SPP (Synthetic preparation); PPS (Preparation); PWC (Process)

(preparation and liquid crystal properties of
47225-1-3) GWS

AB 1,4-Bis(2,6-dimethyl-4-oxo-1,2,3,4-tetrahydropyrimidin-5-yl)-2,5-bis(4-oxo-1,2,3,4-tetrahydropyrimidin-5-yl)benzene

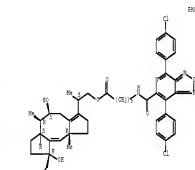


FIGURE 1-a

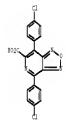
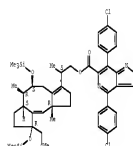


FIGURE 1-b

IT 6570-46-2 (5019-73)
 RE: RCT (Reactant); RCT (Reactant or reagent)
 preparation of fluorescent chromophore derivs. of 8-deoxyribose
 DOCSID: 16634-6-7 (5019-73)
 C1 [1,3,5,6,8-tetraol]2,4,6-epoxide-8-oxoethylidene acid, 4,7-diphenyl- (CA INDEX NAME)



IN 12440-7-3 (5019-73)
 C1 [1,3,5,6,8-tetraol]2,4,6-epoxide-8-oxoethylidene acid, 4,7-bis(4-chlorophenyl)- (CA INDEX NAME)



GE CITING REF COUNT: 1 THERE ARE 1 CARDS RECORDS THAT CITE THIS RECORD
 REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCE AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE TO THE RE RECORD
 129 NUMBER 44 OF 61 CARDS (COPYRIGHT 2011 ACS or ESI)
 ACCESSION NUMBER: 1981-04-01 (5019-73)
 DOCUMENT NUMBER: 121-22413
 OPTIC REFERENCE NO.: 121-22413, 121-22414, 121-22415
 TITLE: An electrochromically tunable polymeric sensor

ABSTRACT: Glass, Kinsella, M., Douglas, R., Parnell, Robert A., Jr., Department Chemistry, Princeton University, Princeton, NJ, 08542, USA
 SOURCE: Argonne Chemical, International Bulletin in English (1977), 34(11/4), 1031-1032
 CODEN: ACTMAY; ISSN: 0578-9033
 POLYMERID: Wiley-VCH
 DOCUMENT TYPE: General
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 121-22413
 CI



AB The preparation and crystal structure of the octapropylphthalocyanine 1 were reported.
 C1 ACCT-6-7
 RE: RCT (Reactant); RCT (Reactant or reagent)
 preparation and properties of octapropylphthalocyanine
 IN 16634-6-7 (5019-73)
 C1 Isomerization, 1,3,5,6,8-tetraphenyl- (CA INDEX NAME)



GE CITING REF COUNT: 33 THERE ARE 33 CARDS RECORDS THAT CITE THIS RECORD
 REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCE AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE TO THE RE RECORD

129 NUMBER 44 OF 61 CARDS (COPYRIGHT 2011 ACS or ESI)
 ACCESSION NUMBER: 1981-04-01 (5019-73)
 DOCUMENT NUMBER: 121-22413, 121-22414, 121-22415
 TITLE: An electrochromically tunable polymeric sensor
 OPTIC REFERENCE NO.: 121-22413, 121-22414, 121-22415
 AUTHORID: Glass, Kinsella, M., Douglas, R., Parnell, Robert A., Jr., Department Chemistry, Princeton University,
 C1 ACCT-6-7

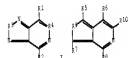
SOURCE: Princeton, NJ, 08542, USA
 Journal of the American Chemical Society (1980), 102(1), 161-168
 DOCSID: 16634-6-7 (5019-73)
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: General
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 121-22413

AB Octapropylphthalocyanine was synthesized by the addition of tetrapropylbenzene to tetrapropylphthalocyanine and octapropylphthalocyanine was synthesized by the addition of the same reagents to tetrapropylphthalocyanine followed by deprotection of the adduct. The structure of both compounds were determined by X-ray analysis. Thus octapropylphthalocyanine is a conformation of octapropylphthalocyanine with a slightly extended octapropyl chain. Octapropylphthalocyanine exhibits (1) good optical, (2) symmetry with a 63° value of the optical anisotropy.

IT 16634-6-7 (5019-73)
 RE: RCT (Reactant); RCT (Reactant or reagent)
 preparation and crystal and mol. structure of octapropylphthalocyanine and octapropylphthalocyanine
 C1 Isomerization, 1,3,5,6,8-tetraphenyl- (CA INDEX NAME)



GE CITING REF COUNT: 66 THERE ARE 66 CARDS RECORDS THAT CITE THIS RECORD



AB An organic electrochromic device, comprising an organic hole-injection transport layer and an organic fluorescent layer formed between 2 electrodes, is claimed in which the fluorescent layer contains a component described by the general formula 1, R1, R2 = an optionally substituted aromatic ring; group R3 = O, S, or N, optionally bearing a substituent; R4 = H or C, optionally bearing a substituent; a component described by the general formula 2, (R5, R6, R7, R8) = an aromatic ring; group R9 = an optionally substituted aromatic ring; or an optionally substituted aromatic heterocyclic group; or a heterocyclic derivative
 C1 121-22413, 121-22414, 121-22415
 RE: RCT (Reactant or reagent); RCT (Reactant)
 Electrochromic devices and methods
 C1 1,3,5,6,8-tetraphenyl-2,4,6-epoxide-8-oxoethylidene acid, 4,7-diphenyl- (CA INDEX NAME)



IN 12624-42-4 (5019-73)
 C1 [1,3,5,6,8-tetraol]2,4,6-epoxide-8-oxoethylidene acid, 1,3,5,6,8-tetraphenyl- (CA INDEX NAME)



GE CITING REF COUNT: 11 THERE ARE 11 CARDS RECORDS THAT CITE THIS RECORD (1 CITING)

129 NUMBER 44 OF 61 CARDS (COPYRIGHT 2011 ACS or ESI)
 ACCESSION NUMBER: 1981-04-01 (5019-73)
 DOCUMENT NUMBER: 121-22413, 121-22414, 121-22415
 TITLE: An electrochromically tunable polymeric sensor
 OPTIC REFERENCE NO.: 121-22413, 121-22414, 121-22415
 AUTHORID: Glass, Kinsella, M., Douglas, R., Parnell, Robert A., Jr., Department Chemistry, Princeton University,
 C1 ACCT-6-7

AB The preparation and crystal structure of the octapropylphthalocyanine 1 were reported.
 C1 ACCT-6-7
 RE: RCT (Reactant); RCT (Reactant or reagent)
 preparation and properties of octapropylphthalocyanine
 IN 16634-6-7 (5019-73)
 C1 Isomerization, 1,3,5,6,8-tetraphenyl- (CA INDEX NAME)

AB The preparation and crystal structure of the octapropylphthalocyanine 1 were reported.
 C1 ACCT-6-7
 RE: RCT (Reactant); RCT (Reactant or reagent)
 preparation and properties of octapropylphthalocyanine
 IN 16634-6-7 (5019-73)
 C1 Isomerization, 1,3,5,6,8-tetraphenyl- (CA INDEX NAME)

RE: RCT (Reactant); RCT (Reactant or reagent)
 preparation and properties of octapropylphthalocyanine
 IN 16634-6-7 (5019-73)
 C1 Isomerization, 1,3,5,6,8-tetraphenyl- (CA INDEX NAME)



GE CITING REF COUNT: 4 THERE ARE 4 CARDS RECORDS THAT CITE THIS RECORD (4 CITING)

129 NUMBER 44 OF 61 CARDS (COPYRIGHT 2011 ACS or ESI)
 ACCESSION NUMBER: 1981-04-01 (5019-73)
 DOCUMENT NUMBER: 121-22413, 121-22414, 121-22415
 TITLE: An electrochromically tunable polymeric sensor
 OPTIC REFERENCE NO.: 121-22413, 121-22414, 121-22415
 AUTHORID: Glass, Kinsella, M., Douglas, R., Parnell, Robert A., Jr., Department Chemistry, Princeton University,
 C1 ACCT-6-7

[illegible]

CG.CITING REF COUNT: 10 THERE ARE 10 CAPUS RECORDS THAT CITE THIS
RECORD (10 CITINGS)

UNCLAS UNRECORDED 001, CAPSULE COPYRIGHT 2011 AIA as STM
 ACQUISITION NUMBER: 1943-194113 CAPSULE Full-length
 DOCUMENT NUMBER: 59-194113
 DISCUSSION REFERENCE NO.: 59-301355, 301104
 TITLE: Products of 4,7-dimethyl-1,2,5-trisubstituted-3,6-
 diisopropylidene acetylenes
 2,5-dimethyl-3,6-dimethoxyacetylenes and many classes of
 the dimers to fluorescent substituted
 AUTHOR(S): Makino, Shunro; Okamoto, Kazumichi; Tamura, Tetsuro;
 Tachino, Masashi
 CORPORATE SOURCE: Res. Cent. Sci., Fukuoka Univ., 80, Fukuoka, 816,
 Japan
 SOURCE: Journal of Heterocyclic Chemistry (1992), 19(5),
 1401-48
 DOCUMENT TYPE: OTHER SOURCE(S) ISBN: 0152-152X
 LANGUAGE: English
 OTHER SOURCE(S): CAPSULE 59-194113
 62

PL: SYN (Synthetic preparation); PREP (Preparation)
 (preparation of)
PM: 65731-32-4 CAPSULE
CM: [1,2,5]Oxadiazolo[3,4-c]pyridine-6-methanol, 4,7-diphenyl- (CA INDEX
 NAME)



FN 05731-34-0 CPDAS
 CN [1,2,5]Oxadiazolo[3,4-c]pyridine-6-carboxylic acid, 4,7-diphenyl- (C
 INDEX NAME)

O=C(O)c1cc2c(c1)c(c3c2oc(=O)c3)C(F)(F)F

were measured for different concs. of I ($R = Ph$) and II and for different Hg
 pressures. No luminescence was observed with I ($R = o-C_6H_4SiMe_3$, Me).
 II
 1130-12-4
 N: PPP (Properties)
 (Electrogenerated chemiluminescence of disulfides in presence of,
 mechanism of)
 H: 13306-12-4 CASUS
 CN Luminescence, 1,3-bis(4-methoxyphenyl)-4,1-diphenyl- (CA INDEX N045)



IT 76580-33-0
PL: RCT (F)

RE 76583-55-0 CPUS



06/CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD. (13 CITATIONS)

06.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS
RECORD (13 CITINGS)

06-CITING REF COUNT: 7 THERE ARE 7 CAPWIS RECORDS THAT CITE THIS RECORD
(7 CITINGS)

L29 ANSWER 51 OF 81 CAPLUS COPYRIGHT 2011 ACS OR STM
 ACCESSION NUMBER: 1881:641816 CAPLUS Full-text
 DOCUMENT NUMBER: 95:41818
 ORIGINAL REFERENCE NO.: 95:7170, 7180a
 TITLE: Electrogenetically chemiluminescence in mechanistic investigations of electrocatalytic reactions. Sub 77

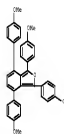
ABSTRACT: The mechanism of the energy transfer from the photoacoustic dehydrogenation of 1,4-dihydropyridines (DHPs) to 9,10-diphenylanthracene (DPA) was investigated by laser photolysis and laser Raman spectroscopy. The energy transfer from the photoacoustic dehydrogenation of DHPs to DPA was observed to be efficient. The energy transfer from the photoacoustic dehydrogenation of DHPs to DPA was observed to be efficient. The energy transfer from the photoacoustic dehydrogenation of DHPs to DPA was observed to be efficient.

[illegible]

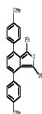
SYNOPSIS TYPE: Journal
 LANGUAGE: English
 AB: In the nucleophilic aromatic substitution of BSR [(I) $R = Ph$, Bz] and fluorosulfonate hydrocarbons [(II) at the dropping mercury electrode in DMF the reduction of I is observed. The electrogenerated chlorosulfonates (CS) are formed from the electrophilic attack of the radical anion of II and SO₂ and SO₃ which are formed in a one-electron reductive cleavage of the $S-O$ bond by III. As an intermediate, the anion radical (IV) of I is assumed. In the case of $R = Ph$ the ECL intensity is enhanced by proton donors (XO, R₂CHOH), which increases the cleavage rate of IV ($R = Ph$) as an electrophilic attack by the proton. The relatively slow, irreversible reduction potential of I is due to the first two steps in the order between the radical anion of II and V, supports an sp^2 -assisted heterogeneous reduction mechanism of I ($R = Ph$). The potential-potential, current and the intensity-current curves of the Hg drop

AB The photoreaction of materials polymerizable cationically (epoxy resins, polyols, and the like) or by radicals (vinyl monomers) can be initiated by the photoexcitation of 2V-absorbing triarylsulfonium or diaryl azonium complex salts 0.1-3 parts, where the aryl may be Ph, naphthyl, tolyl, or furanyl, and the salts BfO⁺ or DAr⁺. The addition of 10-100% of a fluorescent poly(aryl) compound, such as 1,1-dicyrlyl-L-lysine, isocyanides, or coumarins, extends the spectral sensitivity of the initiators, accelerates the polymerization, and allows the use of cheaper light sources. Thus a coating solution contained an epoxycarbazone-monomer resin in 45-90% 2V and 20-80% BfO⁺.

[illegible]



ON Isobenzofuran, 4,7-bis(4-methoxyphenyl)-1,3-diphenyl- (CB INDEX 1998)



RX 16613-27-7 CASUS
 CE Isobenzofuran, 1,2,4,5,6,7-hexachloro- (CA INDEX NAME)



CU Isobenzofuran, 4-(9-anthracenyl)-1,3,7-triphenyl- (CA INGEST NAME)



OS/CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS
RECORD (18 CITINGS)

119 JUNE 75 OF: CARLOS CORRENT 2011 Act on STM
 ACCESSION NUMBER: 1867-8953 CARLOS Full name
 DOCUMENT NUMBER: 6679933
 ORIGINATING REFERENCE NO.: 6618174, 147504
 TITLE:
 AUTHOR(S):
 MODIFIED BY: Electrochromism
 DEWIS, Arnold; Hoffmann, Arthur; Bentz, Harold;
 Donald, J.; Meier, Arthur H.
 CORPORATE SOURCE:
 SOURCE:
 Am. Cyanamid Co., Stamford, CT, USA
 Chemical Communications (London) (1967); (3), 186
 CORDS CORDS: ISSRI 8109-241X
 DOCUMENT TYPE:
 LANGUAGE:
 Journal
 Periodic

42 A study was made of the luminescent condition of the anion, and reduction of the cation, of aryl isobutyroformates and N-methylarylamines, under potential limiting conditions. The fluoroscopes ions underwent electron transfer resulting in electrochemoluminescence under the pre-analytical conditions. Each emitter had a characteristic pre-analytical energy input threshold. The potential was limited chemically by adding complex, such as 1,2,4,5-tetraametybenzene to the iso-forms. The mixed systems electrochemoluminescent daily with the emission characteristic of the isoforms whose triplet energy could not be found. These results are discussed.

RI: PFP (Properties)
 (electrochemical/fluorescence of, electron transfer in
 PI 3546-66-1 CAPUS
 CH [acrylonitrile, 1,3,4,5-tetraazepyl]- (CA DIST NMS)



EN 13346-12-4 CAPIUS
CN Isobenzofuran, 1,3-bis(4-methoxyphenyl)-4,7-diphenyl- (CA INDEX NAME)



129 HASMER 76 OF 81 CAPLOS COPYRIGHT 2011 ACS on STM
 accession number: 1866472003 CAPLOS 2-11-11

DOCUMENT NUMBER: 66-72703
 ORIGINAL REFERENCE NO.: 45-13560-a
 TITLE: Oxidation, reduction, and electrochemiluminescence of
 aryl-substituted isocoumarones and coumarones
 AUTHOR(S): Dzwig, Arnold; Metzler, Guileme; Mauer, Arthur;
 Roberts, Bernard S.
 CORPORATE SOURCE: American Cyanamid Co., Stamford, CT
 SOURCE: Journal of the American Chemical Society (1966),
 88(12), 2864-5
 CORRN: NCSVT; ISBN: 0002-1863

[illegible]

127 7526-66-1, Isobenzofuran, 1,3,4,7-tetrahydropyr-
 (1100-66-3, Isobenzofuran, 1,3-bis(4-biphenyl)-4,7-diphenyl-
 7526-91-4, Isobenzofuran, 1,3,4,7-tetrakis(4-methoxyphenyl)-
 2309-12-4, Isobenzofuran, 1,3-bis(4-methoxyphenyl)-4,7-diphenyl-
 2309-12-5, Isobenzofuran, 4,7-bis(4-methoxyphenyl)-1,3-diphenyl-
 (electrochemical) unanion of

PN 3546-66-1 CAPLUS
CN Isomaxafuran, 1,3,4,7-tetrahydro- (CA INDEX NAME)



CH Isobenzofuran, 1,3-bis([1,1'-biphenyl]-4-yl)-4,7-diphenyl- (CA INDEX
NAME)



CU Isobenzofuran, 1,3,4,7-tetrakis(4-methoxybenzyl)- (C8, THREE NAME)



CH Isobenzofuran, 4,7-bis(4-methoxyphenyl)-1,3-diphenyl- (CA INDEX NAME)



06.CITING REF COUNT: 2 THERE ARE 2 CAPWIS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

629 ANSWER ?? OF 41 CAPLUS COPYRIGHT 2011 ACS de STN
ACCESSION NUMBER: 1965:040577 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 63:040577
ORIGINAL REFERENCE NO.: 63:16272-q
TITLE:
1,4,5,8,9,10-Hemaphysyllatransome
AUTHOR(S):
Lepage, Yves; Pouchoir, Olivier
COMPONENT SOURCE:
College de France, Paris
SOURCE:
Bulletin de la Societe Chimique de France (1965),
2542-4
CODENS: 05CFAS; ISSN: 0137-8968

[illegible]

06.CITING REF COUNT: 1 THERE ARE 1 CAPUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

139 JANUARY 16 1961 CARPUS COPYRIGHT 1911 ACB ON NEW
 140 ADDRESS NUMBER: 494-752500 CARPUS Full-text
 141 DOCUMENT NUMBER: 66-12104
 142 ORIGINAL REFERENCE NO.: 66-12016-1, 12016-2, 12016-3
 143 TITLE: Polyphenylazobenzene, especially
 144 1,4,6-tetraphenylazobenzene
 145 AUTHOR(S): Bergman, E. D.; Blomberg, S.; Benche, P.; Spetkin,
 146 Sten.
 147 DOCUMENT SOURCE: Hebrew Univ., Jerusalem
 148 SOURCE: Tetrahedron (1964), 20(1), 185-209
 149 CORDO. TERMS: USN: 0046-8102
 150 DOCUMENT TYPE: Journal
 151 LANGUAGE: English

Fig. 2. Phasogram (a), see printed Ch. 5 (see).

Various attempts were made to synthesize 1,4,5,8-tetraepoxyphenylthiophene (II), of interest as the Lewis homolog of rubrene (I) and 1,4,5,10-tetraepoxyphenylthiophene (III). Ph₂C(OH)₂ (glycidol) (332206) (1.6 g.) and 2 g. of (PhCH₂)₂CH₂CH₂CH₂OH, at 140° gave 704 mg. of 1,4,5,8-diepoxyl-3,6-diphenylthiophene, m. 101° (decolor), dehydrated in heating PhSO₂ to the known 1,4,5,8-diepoxylphenylthiophene, trans, trans-PhCH₂CH₂CH₂CH₂CH₂OH (120.6 g.) and 23.6 g. trans-2,5-diepoxylthiophene, b.p. at 350 mm. 100–105°C. melting 520–70, n. 179–80°, and an isomer, n. 139°. The adducts carried out 0.8 mm. in 100 ml. boiling MeOH gave 36 g. material, m. 175°, which (16 g.) was oxidized in 150 ml. AcOH and the red filter solution cooled to give 5 g. IV, n. 176–9° (SOCl₂). The acetal fraction (4.1 g. reverts, from MeOH gave V, m. 245°.

[illegible][illegible]

1,3-Hexene were polymerized in the presence of catalytic AlR₃ halides (Ia), and a metal of Groups I-III giving it complexes to give the title compounds, as follows:
 (a) The catalyst complex was prepared by the following organic synthesis, as starting products in the reaction:
 mineral auxiliary agents, or as bases for lacquer components.
 Butadiene 142 was introduced during 35 min. at 56–57°C mixture of THCl 1.14, Al grains 2, RClAl 2.1, and
 mixture was stirred 30 min., diluted with 13 parts H₂O.
 1,3-Cyclohexadiene, R₂H₂, nC₁₀ 1.8974. Smell mol.-weight liquid polymers, 45 100–200; 45 150–200 250–400.

[Derived from data in the 7th Collective Formulas 1954-46.] CAPSULE

Cocodanum, 1,3,4,5-tetraester-, (CA CITEH NOME)